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VIRGINIA DEPARTMENT OF HEALTH

1978 STATISTICAL ANNUAL REPORT

CENTER FOR HEALTH STATISTICS
BUREAU OF VITAL RECORDS AND HEALTH STATISTICS
RICHMOND, VIRGINIA



COMMONWEALTH of VIRGINIA

Department of Health
Richmond, Va. 23219

JAMES B. KENLEY, M.D.
COMMISSIONER

The Honorable John N. Dalton
Governor of Virginia
Richmond, Virginia

Dear Governor Dalton:

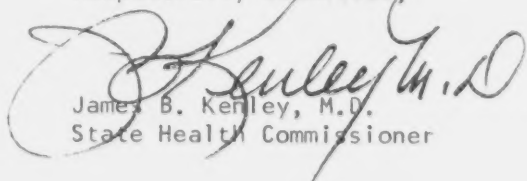
It is a pleasure to present the sixty-sixth statistical annual report of the Department of Health for the calendar year 1978 or the fiscal year ending June 30, 1979, where indicated.

This report, designed for use by Federal, State and local officials, combines program description with analytical data. Detailed statistical charts and tables are included for persons doing research in public health and others who need extensive and comparative statistics.

The first section of this report contains a narrative description of vital records data followed by extensive vital statistics tables many of which contain data for cities, counties, and planning districts. The second section contains activity summaries and program accomplishments of the various Divisions and Bureaus of the State Health Department.

Data in the report reveal the nature and extent of health problems in Virginia and can be used to measure the successful impact of the Department's health care programs on the health of the citizens of the Commonwealth.

Respectfully submitted,


James B. Kenley, M.D.
State Health Commissioner

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Microbiological Science

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VITAL STATISTICS

VITAL STATISTICS

INTRODUCTION

Vital Statistics data for Virginia for the year 1978 are given in this Statistical Annual Report, the sixty-sixth in the series. Data regarding births and deaths have been compiled each year since 1913, the year following the establishment of the Bureau of Vital Records and Health Statistics. Marriage data are available for each year since 1917, and divorce statistics have been recorded and tabulated since 1918.

In this narrative, the data are described and briefly analyzed. Following this, the vital statistics are presented in tabular form showing trends experienced in Virginia for the twenty-year period 1959-1978. For 1978 events, detailed tables containing information for the State and for independent cities and counties are also included. Cities and counties are grouped into twenty-two State planning districts, and planning district totals are also given.

Most tabulations are based on births, deaths, fetal deaths, marriages, and divorces recorded in the Bureau of Vital Records and Health Statistics and known births and deaths of Virginia residents which occurred outside the State. Since resident data reflect local conditions, more of the material in this vital statistics report is presented by place of residence rather than by place of occurrence of the event. The title of each table of data on births, deaths, fetal deaths, and marriages specifies whether the tabulation is compiled by place of occurrence or by place of residence. The divorce data are presented by city or county where the court granted the divorce.

DEFINITIONS

Residence is defined as that of the deceased for a death and as that of the mother for a birth or fetal death. Deaths and births in resident institutions are allocated to the place of previous residence regardless of length of stay in the institution. Marriages are tabulated according to the city or county of residence for both the bride and the groom.

White and nonwhite breakdowns are given for most data. "White" includes persons reported as Mexican and Puerto Rican and those not specifically designated as nonwhite. "Nonwhite" includes Negro, a reported mixture of Negro with any other race, and all other nonwhite races and mixtures. For marriage and divorce figures, white and nonwhite refer to the race of the groom. For birth and fetal death data, white and nonwhite refer to the race of the mother.

A live birth is defined as the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy, which after such expulsion or extraction, breathes, or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached. (Vital Statistics Laws of Virginia, Chapter 18.1,32-353.4)

An immature birth, frequently called premature birth, is one for which the birth-weight is 2,500 grams (5 pounds 8 ounces) or less, regardless of the period of gestation.

CITIES AND COUNTIES BY PLANNING DISTRICT, VIRGINIA, 1978

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An illegitimate birth is one which occurred to a mother who was not married to the father of the child at the time of birth and had not been married to him at any time during the preceding 10 months.

A fetal death is defined as death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy. The death is indicated by the fact that after such expulsion or extraction, the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. (Vital Statistics Laws of Virginia, Chap. 18.1,32-353.4)

Induced abortion is a fetal death where the pregnancy has been deliberately terminated with the purpose of producing a nonviable fetus. Molar and ectopic pregnancies are excluded.

A natural fetal death is a fetal death that is not an induced abortion.

Infant deaths are deaths of children under one year of age. Neonatal deaths are deaths of children under 28 days of age. Hebdomadal deaths are deaths of children under one week of age.

The underlying cause of death, by which all deaths are classified, may be defined as (a) the disease or injury which initiated the train of morbid events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury. It is the responsibility of the certifying physician or medical examiner to indicate the underlying cause, and it is the responsibility of the Bureau to assign the proper code number from the Eighth Revision, International Classification of Diseases, Adapted so that deaths may be classified by underlying cause. Because of the classification revision, cause-of-death figures beginning with 1969 data are not entirely comparable with those of earlier years.

In order to compare death rates from certain causes for the years 1969-1978 with the death rates for a year or years during the period 1949-1968, the estimated number of deaths from these causes during the early year or years must be derived by the use of comparability ratios which were computed by the National Center for Health Statistics from the results of dual coding of certificates according to the old and the new procedures. The comparability ratios are the number of deaths classified to a given cause by the Eighth Revision divided by the number of deaths classified to that cause by the Seventh Revision.

Rates used in this report are defined as outlined below:

Birth rate	=	$\frac{\text{Number of live births X 1,000}}{\text{Estimated total midyear population}}$
Death rate	=	$\frac{\text{Number of deaths X 1,000}}{\text{Estimated total midyear population}}$
Infant death rate	=	$\frac{\text{Number of deaths under one year of age X 1,000}}{\text{Total number of live births}}$
Neonatal death rate	=	$\frac{\text{Number of deaths under 28 days of age X 1,000}}{\text{Total number of live births}}$

$$\begin{aligned} \text{Fetal death ratio} &= \frac{\text{Number of fetal deaths} \times 1,000}{\text{Total number of live births}} \\ &= \frac{(\text{Number of deaths under one week of age} + \text{number of fetal deaths 28 weeks and over gestation}) \times 1,000}{\text{Total number of live births} + \text{number of fetal deaths 28 weeks and over gestation}} \\ \text{Perinatal death rate} &= \frac{\text{Number of fetal deaths} \times 1,000}{\text{Total number of live births} + \text{number of fetal deaths 28 weeks and over gestation}} \\ \text{Maternal death rate} &= \frac{\text{Number of maternal deaths} \times 10,000}{\text{Total number of live births}} \end{aligned}$$

Death rates by cause, other than the maternal rate, are calculated per 100,000 estimated population.

Resident rates refer to births or deaths of residents of Virginia (or a planning district, city or county) and are based on estimated total population, or total live births of the State. No city, county, or planning district resident marriage or resident divorce rates are published in this report. The marriage rates and divorce rates for the State given in Table 4 include all marriages performed in Virginia and all divorces granted in Virginia courts and are calculated per 1,000 estimated population.

A "resident" marriage rate has limited meaning because there is at present no interstate exchange of marriage records, hence no way of knowing how many residents of Virginia are married in other states. Furthermore, the bride and the groom may be residents of two different Virginia localities. According to Virginia law, one party of a divorce must be a resident of this State for a year prior to the commencement of the suit. Because fourteen independent cities do not have separate courts but share a court with the adjoining county, there are no separate divorce figures for these cities. (See Table 49) Furthermore, local divorce rates for the areas just described would have to be based upon the population of the combined city and county concerned.

The median is defined as the middle observation of a distribution. It is that figure for which 50 percent of the observations are below and 50 percent are above in value.

Total population estimates by city and county for July 1, 1978, as shown in Table 2, were prepared by the Tayloe Murphy Institute at the University of Virginia, Charlottesville, Virginia, in cooperation with the U. S. Bureau of the Census. ("Estimates of the Population of Virginia Counties and Cities: July 1, 1977 to July 1, 1978") Estimates for race for 1978 were based on 1976 data for race prepared by the Tayloe Murphy Institute ("Estimates of Demographic Characteristics of Virginia's Cities and Counties, 1976"). The sum of the populations of the cities and counties does not equal the total due to rounding.

The 1978 household population estimates, shown in Table 3, were estimated from figures prepared by the Tayloe Murphy Institute. ("Estimates of Demographic Characteristics of Virginia's Cities and Counties, 1976") The term "household population" excludes military persons living in barracks, persons living in institutions of all kinds, college students living in dormitories or other group quarters, and other persons living in similar group quarters. The definitions of "household" and "group quarters" are those set by the U. S. Bureau of Census in the published reports of the 1970 census. (General Population Characteristics, Virginia PC(1)-B48, Appendix B. App. 6-7.)

In most localities the total population differs only slightly from the population living in households. In this annual report, birth and death rates for independent cities and counties have been calculated on household populations since these are the populations with which local health services are primarily concerned and since deaths in resident institutions are allocated to place of prior residence regardless of length of stay in the institution. However, rates for planning districts and for the State as a whole are calculated on total population estimates, since these larger areas include all persons within their boundaries whether in households or group quarters.

INTERPRETATION OF DATA

Collection. In Virginia, all birth, fetal death, and death certificates are filed in local health departments of the counties and independent cities by the hospitals, physicians, midwives, and funeral directors. The local health offices forward the records semi-monthly to the Bureau. Marriage certificates and divorce abstracts are transmitted monthly to the Bureau by the clerks of the various city and county courts.

Interstate exchange of vital records. An interstate exchange of birth and death certificates provides a count of out-of-state events occurring to Virginia residents for inclusion in the resident totals of Virginia cities and counties. Likewise, certificates of events occurring in Virginia to non-residents are transferred to the proper states. A large number of the births to northern Virginia residents occur in District of Columbia hospitals, which accounts for the fact that the number of out-of-state births greatly exceeds the number of nonresident births occurring in the State. Out-of-state deaths also outnumber resident deaths, but by a much smaller margin.

LOCATION OF BIRTH OR DEATH

Location	Births, 1978			Deaths, 1978		
	Total	White	Nonwhite	Total	White	Nonwhite
Occurring in Virginia	70,648	52,550	18,098	40,196	30,999	9,197
Residents of Virginia	68,680	50,832	17,848	38,332	29,422	8,910
Residents of other areas	1,968	1,718	250	1,864	1,577	287
Occurring to Virginia residents	73,349	54,921	18,428	40,649	31,497	9,152
In Virginia	68,680	50,832	17,848	38,332	29,422	8,910
Out-of-state	4,669	4,089	580	2,317	2,075	242

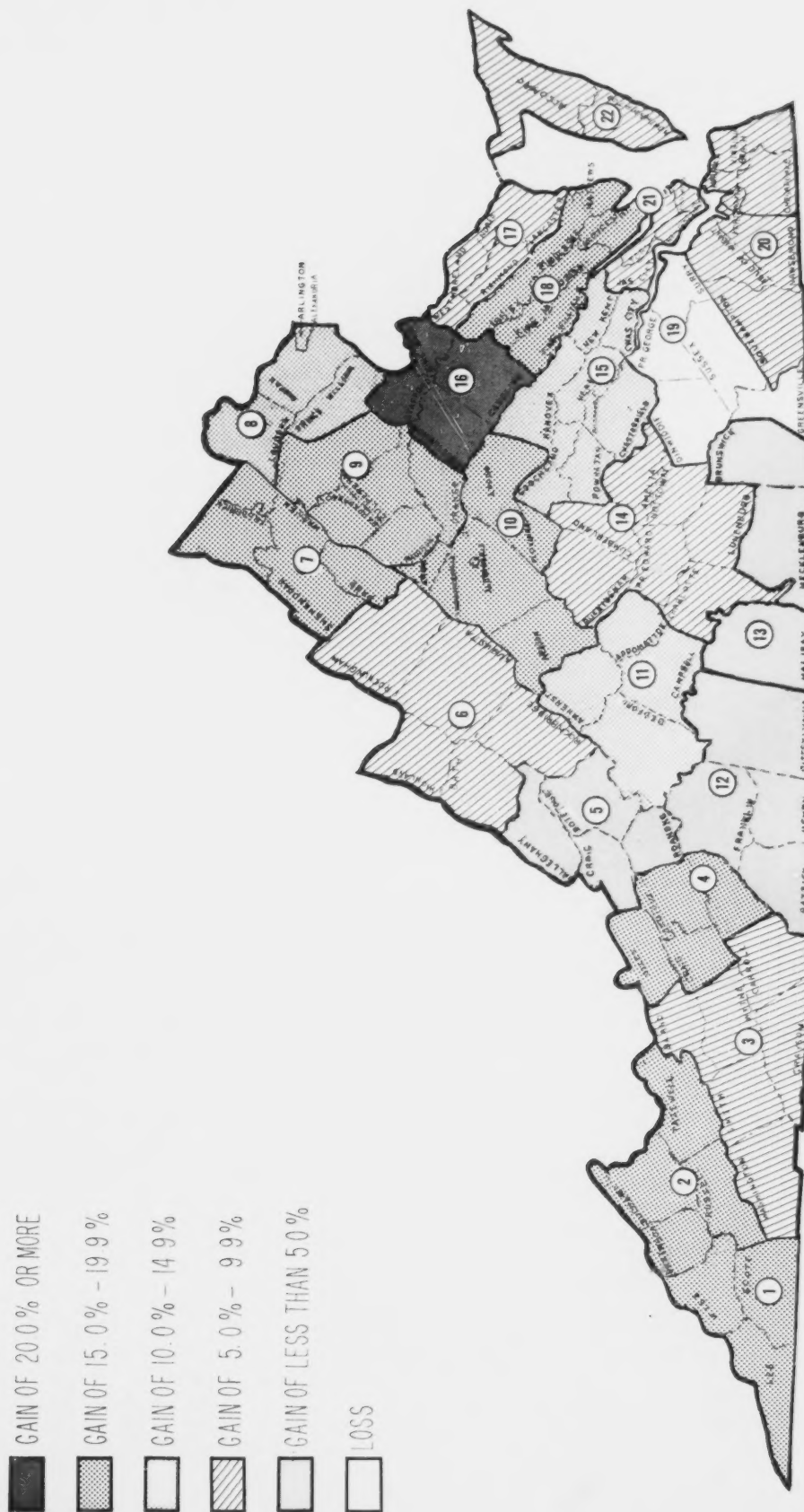
Completeness of registration. At the time of the Censuses of Population of 1940 and 1950, tests were made to determine the completeness of birth registration in each state. In the 1950 test, Virginia's reporting was estimated to be 97.3 percent complete (98.0 percent for white births, 95.1 percent for nonwhite). With the steady increase in the percent of births occurring in hospitals since 1950, especially among the nonwhite, it is assumed that the reporting of births is more complete than ever before.

The completeness of registration of other vital records has never been studied to any great extent; however, indications are favorable in regard to the reporting of these records. Death registration is considered more complete than birth registration since other legal requirements must be met.

Chart A

PERCENTAGE POPULATION CHANGE BY PLANNING DISTRICTS

VIRGINIA 1970-1978



Fetal death registration will probably improve regarding completeness of reporting since increasing attention is directed to the relationship of fetal deaths and early infant deaths. The liberalization of abortion laws has also increased the number of reported cases.

Late filing of records. All vital records for the report year which are received prior to the deadline cutoff date in the following year are included in the annual statistics. Deadline cutoff dates are March 1 for marriages and divorces, April 1 for deaths, and May 1 for births and fetal deaths. Late registrations not included in annual statistics are, therefore, small in number.

Tabulation of data by residence and by place of occurrence. Resident data are presented for the State, for planning districts, and for the counties and independent cities on all vital events except divorces and annulments. Recorded data are obtained by classifying the vital records according to the place of occurrence of birth, death, fetal death, marriage, and divorce. Considerable use is made of recorded data in planning hospital and clinic facilities in a given community.

SUMMARY OF VITAL EVENTS, VIRGINIA, 1978

Event	Total	White	Nonwhite
Resident Events			
Live births	73,349	54,921	18,428
Natural fetal deaths	6,131	4,390	1,741
Induced abortions	28,492	19,642	8,850
Infant deaths	989	611	378
Deaths, all causes	40,649	31,427	9,152
Recorded Events			
Marriages	58,967	50,187	8,780
Divorces (including annulments)	22,654	19,182	3,472

POPULATION

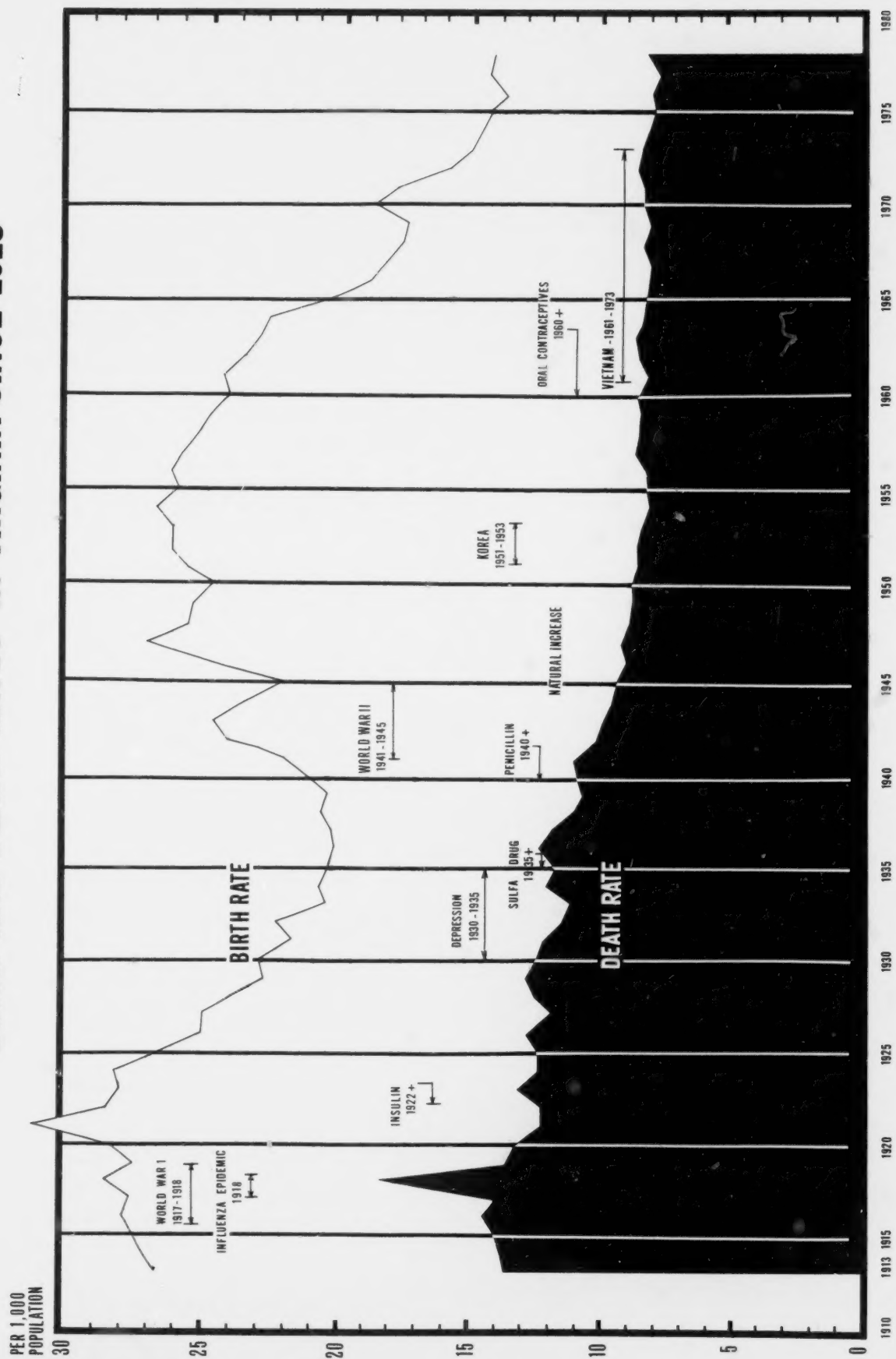
Virginia's total population as of July, 1978 was estimated at 5,148,100 according to the Tayloe Murphy Institute, University of Virginia. This was an increase of 13,600, or 0.3 percent, over the July, 1977 estimate of 5,134,500 and represents a 496,652, or 10.7 percent, increase since the revised census figure for April 1, 1970.

Among planning district areas, Planning District 16 (including Caroline, King George, Spotsylvania, Stafford counties and Fredericksburg city) has had, by far, the most significant rise in population -- 42.9 percent from the 1970 census to the July, 1978 count. The second most significant rise in population, 19.1 percent for the same period, occurred in Planning District 2 (including Buchanan, Dickenson, Russell and Tazewell). The only planning district indicating a loss of population since the 1970 census was Planning District 19.

The city/county areas with the greatest percent population growth since the 1970 census were Spotsylvania (80.3), Poquoson (71.5), Chesterfield (66.0), Powhatan (62.6) and Stafford (51.0). Franklin city (-17.6), Arlington (-14.3), Staunton (-12.9) and Richmond city (-12.0) showed the largest decreases in population during the same period.

Chart B

BIRTH AND DEATH RATES IN VIRGINIA SINCE 1913



Approximately one-fifth, 1,038,100, of Virginia's population live in Planning District 8 - Arlington, Fairfax, Loudoun and Prince William counties, and Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities. The population gain for the period 1970-1978 for Planning District 8 stood at 12.7 percent, well above the State figure of 10.7 percent.

Planning District 17 (Lancaster, Northumberland, Richmond and Westmoreland counties) is the smallest in terms of population with 40,200 residents.

Since the 1970 census, the white population has increased by 10.4 percent, while the nonwhite population increased by 12.2 percent. In 1978, the racial distribution of Virginia's population was 80.7 percent white and 19.3 percent nonwhite. The 1970 census figures were 80.9 percent and 19.1 percent, respectively.

RESIDENT BIRTHS

Virginia resident live births numbered 73,349 in 1978, representing a 1.2 percent decrease from the 74,246 recorded in 1977. The birth rate was 14.2 per 1,000 estimated population in 1978, a 2.1 percent decrease from the 1977 rate of 14.5. The comparable preliminary birth rate for the United States was 15.3 per 1,000 population in 1978.

BIRTHS AND BIRTH RATES WITH PERCENT CHANGE VIRGINIA, 1973-1978

Year	Births	Percent Change	Birth Rate	Percent Change
1973	71,665	-4.5	14.9	-5.7
1974	71,066	-0.8	14.5	-2.7
1975	70,032	-1.5	14.1	-2.8
1976	69,972	-0.1	13.9	-1.4
1977	74,246	+6.1	14.5	+4.3
1978	73,349	-1.2	14.2	-2.1

The decrease of 1.2 percent in 1978 resident births and the 2.3 percent increase in resident deaths combined to decrease the live birth-to-death ratio from 1.868 in 1977 to 1.804 in 1978. The total live birth rate exceeded the death rate by 6.3 per 1,000 population in 1978.

NUMBER AND RATE OF NATURAL POPULATION INCREASE BY RACE VIRGINIA, 1978

Race	Births	Deaths	Natural Increase	Birth Rate	Death Rate	Rate of Natural Increase
Total	73,349	40,649	32,700	14.2	7.9	6.3
White	54,921	31,497	23,424	13.2	7.6	5.6
Nonwhite	18,428	9,152	9,276	18.5	9.2	9.3

Race. As in 1977, three-fourths (74.9 percent) of the infants born to Virginians in 1978 were white. However, the nonwhite birth rate (18.5) was 5.3 per 1,000 population higher than the white rate of 13.2. In comparison with 1977, both white and nonwhite births and birth rates decreased in 1978. There were 741 fewer white babies and 156 fewer nonwhite babies in 1978.

Age of Mother and Live Birth Order. The median age for all mothers of 1978 live births was 25.2. For white mothers, the median age was 25.8, while for nonwhite mothers, it was 23.5. The median age for white mothers was higher than that for nonwhite mothers at all birth orders except 10 or more.

The median birth order for all Virginia mothers was 2.1. For white and nonwhite births, the median birth order was 2.1 and 2.2, respectively.

MEDIAN AGE OF MOTHER FOR EACH BIRTH ORDER BY RACE
VIRGINIA, 1978

Race	Total	Birth Order									
		1	2	3	4	5	6	7	8	9	10 or more
Total	25.2	22.8	26.0	28.1	29.9	31.9	33.2	35.3	36.2	37.7	39.4
White	25.8	23.4	26.4	28.8	31.0	32.8	34.1	35.8	37.2	39.0	39.1
Nonwhite	23.5	20.6	24.2	26.1	27.7	30.1	32.1	34.4	35.5	35.0	39.6
Years white median age greater than nonwhite	2.3	2.8	2.2	2.7	3.3	2.7	2.0	1.4	1.7	4.0	-0.5

Attendant at Birth. The percentage of total births occurring in hospitals remained 99.3, the same in 1978 as in 1977. For 1978 white births, the percentage in hospitals was 99.3, while for nonwhites, the percentage was 99.0. An additional 265 births were attended by physicians out of the hospital. For both white and nonwhite births, 0.4 percent were attended by "midwives or others."

Sex Ratios. As usual, the male births (37,714) outnumbered the female births (35,635). The resulting ratio was 105.8 males to every 100 females.

The frequency of males to females was also greater for infant deaths, for natural fetal deaths where sex was indicated, and for births with congenital malformations. This male-to-female ratio was higher for whites than nonwhites for live births and for infant deaths; however, for congenital malformations and fetal deaths, this sex ratio was higher among nonwhites.

RATIO OF MALES PER 100 FEMALES FOR SPECIFIED VITAL EVENTS
VIRGINIA, 1978

Vital Event	Total	White	Nonwhite
Live Births	105.8	106.2	104.8
Natural Fetal Deaths	134.6	131.8	139.4
Infant Deaths	131.6	128.8	136.3
Congenital malformations	157.3	170.9	125.0

Immature Births. During 1978, there were 5,399, or 7.4 percent, of total live births of "immature" birthweight (weighed 5 pounds 8 ounces or less at birth regardless of gestation). The nonwhites exhibited a much higher percentage of immaturity among births with 11.7 percent compared to 5.9 percent immature births for whites. The ratio of immature births to infant deaths involving immaturity was 13.1:1 for whites and 11.7:1 for nonwhites. Hospital deliveries occurred for 99.0 percent of the immature births, with the white and nonwhite percentages being 99.2 and 98.7, respectively.

PERCENT IMMATURE OF RESIDENT BIRTHS BY RACE
VIRGINIA, 1974-1978

Year	Immature Births			Percent		
	Total	White	Nonwhite	Total	White	Nonwhite
1974	5,394	3,365	2,029	7.6	6.2	12.1
1975	5,377	3,322	2,055	7.7	6.2	12.2
1976	5,274	3,207	2,067	7.5	6.0	12.2
1977	5,451	3,287	2,164	7.3	5.9	11.6
1978	5,399	3,247	2,152	7.4	5.9	11.7

NUMBER AND PERCENT OF BIRTHS ACCORDING TO
WEIGHT GROUP BY RACE, VIRGINIA, 1978

Birthweight	Total		White		Nonwhite	
	Number	Percent	Number	Percent	Number	Percent
TOTAL	73,349	100.0	54,921	100.0	18,428	100.0
Immature	5,399	7.3	3,247	5.9	2,152	11.7
Less than 11b.2oz.	97	0.1	51	0.1	46	0.2
11b.2oz.-31b.4oz.	806	1.1	443	0.8	363	2.0
31b.5oz.-51b.8oz.	4,496	6.1	2,753	5.0	1,743	9.5
Full Term	67,852	92.6	51,603	94.0	16,249	88.2
51b.9oz.-71b.11oz.	39,880	54.4	28,274	51.5	11,606	63.0
71b.12oz.-91b.14oz.	26,676	36.4	22,192	40.4	4,484	24.3
91b.15oz. & over	1,296	1.8	1,137	2.1	159	0.9
Unknown	98	0.1	71	0.1	27	0.1

The percentage of total births that were immature was highest at birth order seven and over. This birth order had the highest percentage of immature deliveries for white mothers, but for nonwhite mothers, birth order four had the highest percentage. At all birth orders, the relative frequency of immature births was significantly higher among nonwhite than white mothers.

PERCENT IMMATURE OF LIVE BIRTHS BY BIRTH ORDER
BY RACE, VIRGINIA, 1978

Race	Total	Birth Order						
		1	2	3	4	5	6	7 plus
Total	7.4	7.6	6.5	7.6	8.8	8.8	8.4	8.9
White	5.9	6.2	5.3	5.8	6.9	7.1	7.3	8.8
Nonwhite	11.7	12.1	10.6	12.3	12.8	11.7	9.9	9.0

The percentage of immature live births was highest among mothers under 15 years of age. This age group also had the highest percentage of immature births for white mothers as well as for nonwhite mothers. For all age groups, nonwhite mothers had a higher percentage of immature births than white mothers.

PERCENT IMMATURE OF LIVE BIRTHS BY AGE OF MOTHER
BY RACE, VIRGINIA, 1978

Race	Total	Age of Mother							
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total	7.4	15.6	10.6	7.3	6.4	5.8	7.5	8.7	9.1
White	5.9	8.6	8.1	5.7	5.5	5.2	6.2	7.9	6.0
Nonwhite	11.7	19.2	14.6	11.7	9.6	8.7	12.5	10.5	12.5

Illegitimate Births. Although births decreased in 1978 by 1.2 percent compared to 1977, illegitimate births increased by 3.5 percent. The resulting illegitimate birth rate of 171.0 per 1,000 live births was the highest on record. This increase in the illegitimate birth rate extends a trend that has continued for the past nineteen years. The number of illegitimate births increased by 5.6 percent for whites, and by 2.5 percent for nonwhites. The nonwhite rate of 466.3 illegitimate births per 1,000 live births was still much higher than the comparable white rate (72.0).

RESIDENT ILLEGITIMATE BIRTHS WITH RATES
PER 1,000 LIVE BIRTHS BY YEAR, VIRGINIA, 1969-1978

Year	Total Live Births	Illegitimate Live Births	Rates per 1,000 Live Births
1969	83,420	9,583	114.9
1970	86,081	10,263	119.2
1971	82,713	10,071	121.8
1972	75,068	9,806	130.6
1973	71,665	9,514	132.8
1974	71,066	9,738	137.0
1975	70,032	10,220	145.9
1976	69,972	10,703	153.0
1977	74,246	12,125	163.3
1978	73,349	12,546	171.0

Month of Birth. An average of 201 children were born each day to Virginia residents. The daily averages by month ranged from a high of 215 in August to a low of 184 in April.

DAILY AVERAGE OF BIRTHS BY MONTH
VIRGINIA, 1978

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
191	199	199	184	188	195	210	215	214	207	201	208

Congenital Anomalies. In 1978, there were 656 infants born with one or more congenital anomalies reported, or 0.9 percent of total live births. Of the congenital anomalies reported, polydactyly was, by far, the most common condition for nonwhites (37.8 percent). Clubfoot (14.3 percent) and cleft palate and cleft lip (10.3 percent), were the most common anomalies for whites.

NUMBER AND PERCENT OF CONGENITAL ANOMALIES BY TYPE BY RACE
VIRGINIA, 1978

Type of Anomaly	Total		White		Nonwhite	
	Number	Percent	Number	Percent	Number	Percent
TOTAL	740	100.0	552	100.0	188	100.0
Anencephalus	12	1.6	10	1.8	2	1.1
Spina bifida	33	4.5	33	6.0		
Congenital hydrocephalus	23	3.1	19	3.4	4	2.1
Other anomalies of central nervous system	18	2.4	16	2.9	2	1.1
Anomalies of the eye, ear, face and neck	38	5.1	28	5.1	10	5.3
Anomalies of the heart	29	3.9	23	4.2	6	3.2
Other anomalies of the circulatory system	9	1.2	8	1.5	1	0.5
Anomalies of the respiratory system	10	1.4	6	1.1	4	2.1
Cleft palate and cleft lip	70	9.5	57	10.3	13	6.9
Other anomalies of upper alimentary tract	9	1.2	8	1.5	1	0.5
Other anomalies of digestive system	23	3.1	18	3.3	5	2.7
Hypospadias	49	6.6	46	8.3	3	1.6
Other anomalies of genitourinary system	33	4.5	27	4.9	6	3.2
Clubfoot	95	12.9	79	14.3	16	8.5
Polydactyly	94	12.7	23	4.2	71	37.8
Syndactyly	14	1.9	8	1.4	6	3.2
Other anomalies of limbs	66	8.9	52	9.4	14	7.5
Other anomalies of musculoskeletal system	18	2.4	15	2.7	3	1.6
Anomalies of skin, hair, and nails	19	2.6	15	2.7	4	2.1
Other and unspecified anomalies	3	0.4	3	0.5		
Syndromes affecting multiple systems	75	10.1	58	10.5	17	9.0

Plural Births. There were 1,398 live multiple births to Virginia residents in 1978: 1,377 twins and 21 triplets. Additionally, 94 twins and 2 triplets were reported as natural fetal deaths.

Among live births a much higher rate of immaturity existed for plural births (49.9 percent) than for single births (7.4 percent). The nonwhite immaturity rate for plural births was 53.0 percent, while the white rate stood at 48.5 percent.

For every 1,000 live births among nonwhite women, there were 22.6 plural births, while for every 1,000 live births among white women, there were 17.9 plural births. The comparative rates for 1977 were 22.5 and 17.9, respectively.

PLURAL BIRTHS AND IMMATURE PLURAL BIRTHS
WITH PERCENT IMMATURE BY RACE, VIRGINIA, 1978

Event	Total	White	Nonwhite
Plural births	1,398	981	417
Plural immature births	697	476	221
Percent immature	49.9	48.5	53.0

Out-of-State Occurrences. In 1978, 4,669, or 6.4 percent, of the infants born to Virginia residents were born out-of-state. Of these births, 2,334, or 50.0 percent, occurred in the District of Columbia. The six areas bordering Virginia accounted for 97.4 percent of Virginia's out-of-state births.

The 1,968 births occurring in Virginia to out-of-state residents represented 2.8 percent of the 70,648 live births occurring in Virginia. The states of residence most frequently recorded for these Virginia-born infants were West Virginia (864), North Carolina (553), and Maryland (292). A total of 95.0 percent of these out-of-state resident births were from the six bordering areas of Virginia.

BIRTHS INVOLVING VIRGINIA AND BORDERING STATES
VIRGINIA, 1978

State of Birth	Virginia residents born out-of-state		Out-of-state residents born in Virginia	
	Number	Percent	Number	Percent
TOTAL	4,669	100.0	1,968	100.0
District of Columbia	2,334	50.0	58	2.9
Tennessee	925	19.8	31	1.6
Maryland	591	12.7	292	14.8
West Virginia	284	6.1	864	43.9
North Carolina	273	5.8	553	28.1
Kentucky	142	3.0	72	3.7
Other states	120	2.6	84	4.3
Foreign countries			14	0.7

Other Birth Items. A total of 53,026, or 72.3 percent, of the 1978 Virginia mothers were at least high school graduates. Of this number, 11,948 had completed four or more years of college. For 770, or 1.0 percent of the mothers, education did not extend beyond the sixth grade level. The highest grade completed was not stated for 295 mothers.

In 1978, 58,680 mothers, or 80.0 percent, began prenatal care in the first trimester of pregnancy. At least 98.1 percent of the mothers had seen a physician prior to delivery. Only 525, or 0.7 percent, of the mothers received no prenatal care, while care status for 860 mothers was unknown.

Of the mothers who had completed at least 12 years of schooling, 85.2 percent began prenatal care in the first trimester of pregnancy. Only 63.0 percent of the 770 mothers with fewer than seven years of education began care as early. The percentage of mothers who completed at least their high school education but who received no prenatal care was 0.3, while the comparable percentage for mothers with fewer than seven years of school was 4.2.

The 30-34 age group had the highest percentage of mothers, 87.1 percent, who received prenatal care in the first trimester of pregnancy. Of the mothers who were under 15 years of age, only 41.8 percent received prenatal care in the first trimester. The percentage of mothers receiving no prenatal care was the highest for the age group 45 and over, 3.0 percent.

Of the Virginia women giving birth in 1978, 62.2 percent saw a physician 10 to 14 times during pregnancy. The median number of prenatal visits was 11.9. Sixty-four mothers were seen by a physician 30 or more times.

One or more complications of pregnancy were indicated for 17,230 or 23.5 percent, of mothers having live births. Mothers under 15 had the lowest percentage of complications of pregnancy, 18.9 percent, while mothers who were age 45 and over had the highest percentage of complications, 36.4 percent. For mothers having births in 1978, the percentage of births with complications of pregnancy increased as the mother's age increased.

PERCENTAGE DISTRIBUTION OF RESIDENT BIRTHS BY AGE OF MOTHER
BY TRIMESTER PRENATAL CARE BEGAN, COMPLICATIONS OF PREGNANCY,
AND CONGENITAL ANOMALIES, VIRGINIA, 1978

Medical Item	Total	Age of Mother							
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
<u>Trimester Care Began</u>									
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
First trimester	80.0	41.8	63.1	78.9	86.8	87.1	82.5	76.1	60.6
Second trimester	15.3	41.8	28.2	16.6	10.2	9.3	13.5	18.0	30.3
Third trimester	2.8	12.7	6.0	2.9	1.5	1.4	2.0	4.6	6.1
None	0.7	2.2	1.7	0.8	0.3	0.4	0.6	0.4	3.0
Unknown	1.2	1.5	1.0	0.8	1.2	1.8	1.4	0.9	0.0
<u>Complications of Pregnancy</u>									
Percent of Births	23.5	18.9	21.0	22.6	24.3	25.3	27.4	30.2	36.4
<u>Congenital Anomalies</u>									
Percent of Births	0.9	0.7	0.9	0.9	0.9	0.9	0.8	2.0	6.1

Of the mothers receiving prenatal care, 23.4 percent had complications of pregnancy and 19.6 percent of those who received no prenatal care had complications. Mothers having their first child had the highest percentage of births with complications, 26.6 percent. The lowest percentage of births with complications, 17.7 percent, was reported for birth order seven.

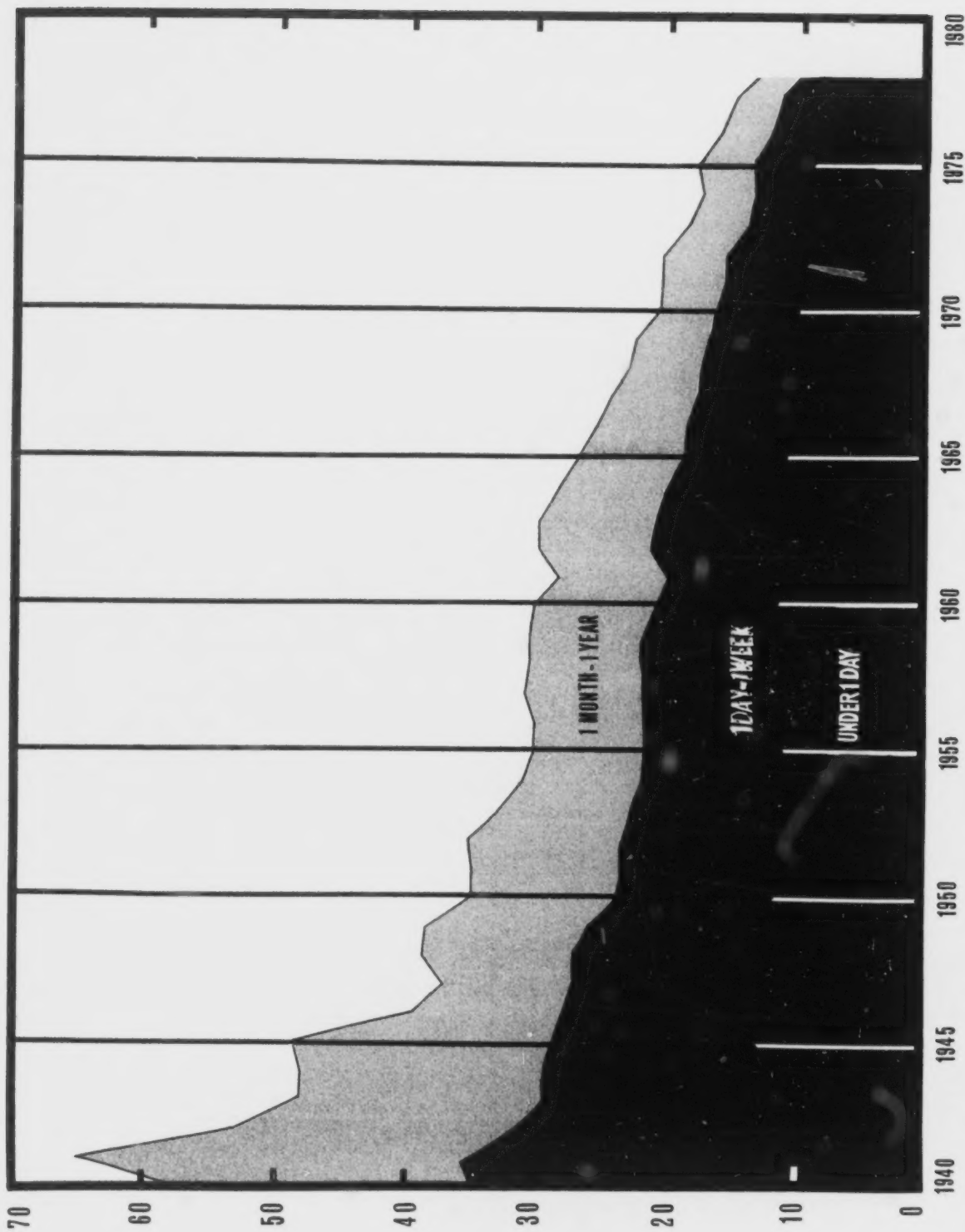
RESIDENT BIRTHS WITH COMPLICATIONS OF PREGNANCY
BY TYPE BY BIRTH ORDER, VIRGINIA, 1978

Type of Complication	Total	Birth Order								
		1	2	3	4	5	6	7	8+	Unk.
Unduplicated count of mothers with complications	17,230	8,829	5,147	2,090	687	278	100	43	55	1
<u>All complications</u>	<u>25,216</u>	<u>13,912</u>	<u>6,851</u>	<u>2,822</u>	<u>960</u>	<u>393</u>	<u>150</u>	<u>59</u>	<u>68</u>	<u>1</u>
Complications arising during pregnancy	1,029	428	352	162	51	24	3	6	3	
Urinary infections and toxemias of pregnancy and the puerperium	2,265	1,430	499	194	77	35	16	7	7	
Abortion	10	6	4							
Complications of delivery	20,554	11,401	5,602	2,275	762	303	117	42	51	1
Complications of the puerperium	7	2	2	2	1					
Conditions in the mother unrelated to pregnancy	1,351	645	392	189	69	31	14	4	7	
Percent with complications	23.5	26.6	21.4	20.5	19.5	21.7	20.1	17.7	21.8	

Chart C

INFANT MORTALITY RATE PER 1,000 LIVE BIRTHS IN VIRGINIA SINCE 1940

RATE PER 1,000 LIVE BIRTHS



INFANT MORTALITY

In Virginia, in 1978, infant deaths decreased to 989, or 15.3 percent, from the 1977 figure of 1,167. The resulting rate of 13.5 shows a substantial decrease from the 1977 rate of 15.7 per 1,000 live births. This decrease once again followed the pattern that was evident in infant mortality from 1963 to 1976.

In 1978, there were 693 neonatal deaths (infants under 28 days) resulting in a rate of 9.4 per 1,000 live births. The comparable figure for 1977 was 11.2.

White infant deaths decreased from 724 in 1977 to 611 in 1978 and nonwhite infant deaths decreased from 443 to 378. The rates of infant deaths per 1,000 live births were 11.1 and 20.5 for whites and nonwhites, respectively.

RESIDENT INFANT DEATHS BY RACE WITH RATES
PER 1,000 LIVE BIRTHS, VIRGINIA, 1974-1978

Year	Total		White		Nonwhite	
	Number	Rate	Number	Rate	Number	Rate
1974	1,236	17.4	797	14.7	439	26.1
1975	1,233	17.6	802	15.1	431	25.6
1976	1,143	16.3	699	13.2	444	26.2
1977	1,167	15.7	724	13.0	443	23.8
1978	989	13.5	611	11.1	378	20.5

Among the 989 infant deaths, 479 were attributed to certain causes related to early infancy with immaturity (106) and asphyxia of the newborn (73) being the two primary contributors to this category. The resulting rate for the total category was 6.5 per 1,000 live births. The comparable 1978 rate for the United States was 4.1. These causes, along with congenital anomalies (181) and crib deaths (121), were the leading causes of death to Virginia infants in 1978. Certain causes of mortality in early infancy tied for the tenth leading cause of death among all Virginia residents in 1978.

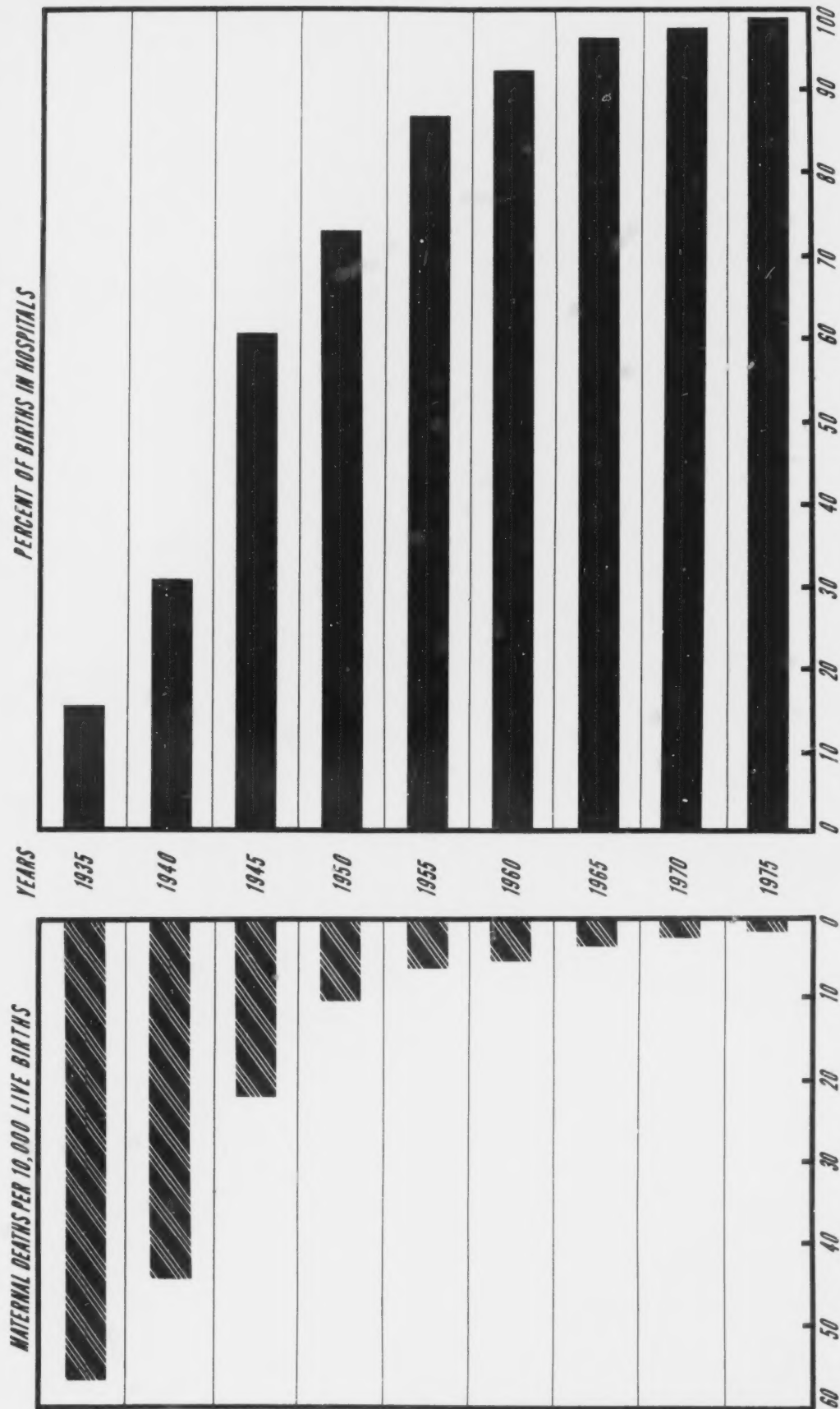
RESIDENT INFANT DEATHS BY CAUSE WITH RATE PER 1,000 LIVE BIRTHS,
VIRGINIA AND UNITED STATES, 1978

Cause of Infant Death	Virginia		United States*
	Number	Rate	Rate
TOTAL INFANT DEATHS	989	13.5	13.6
Under 28 days	693	9.4	9.4
28 days through 11 months	296	4.0	4.2
Certain causes of mortality in early infancy (760-778)	479	6.5	6.6
Asphyxia of newborn, unspecified (776.9)	73	1.0	0.9
Immaturity, unqualified (777)	106	1.4	1.1
Birth injuries (764-768(.0-.3), 772)	45	0.6	0.5
All other (760-778 remainder)	255	3.5	4.1
Congenital anomalies (740-759)	181	2.5	2.5
Influenza and pneumonia (470-474, 480-486)	32	0.4	0.5
Certain gastrointestinal diseases (004, 006-009, 535, 561-563)	14	0.2	0.2
All other causes	283	3.9	3.9

*Rates estimated. NOTE: Numbers in parentheses are from ICDA, 8th Revision.

Chart D

MATERNAL MORTALITY AND HOSPITALIZATION OF BIRTHS IN VIRGINIA SINCE 1935



In 1978, there were 393 infants who failed to survive one day and 613 who died within their first week of life. Infants who died before the age of one month, 693, accounted for 70.1 percent of the total infant deaths.

PERCENT OF TOTAL INFANT DEATHS IN EACH AGE GROUP BY RACE
VIRGINIA, 1978

Race	Total Infant Deaths	Age at Death						
		Less than 1 day	1-6 days	Under 1 week	7-27 days	Under 28 days	1-5 Mos.	6-11 Mos.
Total	100.0	39.7	22.2	62.0	8.1	70.1	22.2	7.7
White	100.0	36.2	23.7	59.9	9.3	69.2	21.6	9.2
Nonwhite	100.0	45.5	19.8	65.3	6.1	71.4	23.3	5.3

MATERNAL DEATHS

Maternal conditions caused 7 deaths among Virginia women in 1978, giving a maternal mortality rate of 1.0 per 10,000 live births. These 7 deaths represent a decrease from the 11 maternal deaths reported in 1977. As in previous years, 1978 maternal deaths were more frequent among nonwhite than among white mothers. The respective rates were 2.7 and 0.4 maternal deaths per 10,000 live births.

MATERNAL DEATHS BY CAUSE BY RACE
VIRGINIA, 1978

Cause	Total	White	Nonwhite
TOTAL	7	2	5
Complications of pregnancy (630-634)	1		1
Urinary infections and toxemias (635-639)	1		1
Delivery with specified complications (650-662)	1	1	
Complications of the puerperium (670-678)	4	1	3

NOTE: Numbers in parentheses are from ICDA, 8th Revision.

ALL PREGNANCY TERMINATIONS

A total of 107,972 pregnancy terminations (live births and all fetal deaths) were reported for Virginia residents in 1978, representing 2,141 more than in the previous year. This 2.0 percent increase resulted from an increase of 12.2 percent in the number of induced abortions. Current data show a rising trend in deliveries due to this increase in abortions which was greatly accelerated with the 1970 legislative action and later Supreme Court decisions nullifying most requirements regarding induced abortions.

For females under 15 years of age, there were more induced abortions than live births. The largest age-specific rates for births and natural fetal deaths were in the 25-29 year age group, while for all fetal deaths and total pregnancy terminations, the 20-24 year age group was highest. The induced abortion rate was also highest among females 20-24 years of age.

RESIDENT PREGNANCY TERMINATIONS BY TYPE
VIRGINIA, 1969-1978

Year	Total Pregnancy Terminations	Live Births	All Fetal Deaths		
			Total	Induced Abortions	Natural Fetal Deaths
1969	89,801	83,420	6,381	309	6,072
1970	94,554	86,081	8,473	1,645	6,828
1971	92,573	82,713	9,860	3,775	6,085
1972	85,547	75,068	10,479	4,567	5,912
1973	84,373	71,665	12,708	7,136	5,572
1974	90,257	71,066	19,191	13,594	5,597
1975	92,915	70,032	22,883	17,066	5,817
1976	97,604	69,972	27,632	21,563	6,069
1977	105,831	74,246	31,585	25,399	6,186
1978	107,972	73,349	34,623	28,492	6,131

PREGNANCY TERMINATIONS, LIVE BIRTHS, ALL FETAL DEATHS, INDUCED ABORTIONS,
AND NATURAL FETAL DEATHS PER 1,000 FEMALES BY AGE, VIRGINIA, 1978

Age	Total Pregnancy Terminations	Live Births	All Fetal Deaths		
			Total	Induced Abortions	Natural Fetal Deaths
TOTAL	86.4	58.7	27.7	22.8	4.9
Under 15*	16.1	6.4	9.7	8.8	0.8
15-19	90.8	48.9	41.9	38.1	3.8
20-24	137.9	92.4	45.6	38.4	7.1
25-29	124.0	96.0	28.0	20.6	7.3
30-34	74.6	57.0	17.5	12.4	5.1
35-39	27.1	17.4	9.7	7.2	2.5
40-44	6.3	3.2	3.1	2.3	0.8
45 & over**	2.8	1.2	1.7	1.1	0.6

Rates are based on population age 14* and age 45** only.

FETAL DEATHS

The 34,623 fetal deaths occurring to Virginia residents in 1978 represented an increase of 3,038, or 9.6 percent, over the previous year. Fetal deaths reported for white residents increased 16.5 percent, while the nonwhite total decreased 3.3 percent.

The Fetal Death total includes Induced Abortions which accounted for 82.3 percent of the total. All other fetal deaths are referenced as Natural Fetal Deaths throughout this report.

INDUCED ABORTIONS

During 1978, at least 28,492 Virginia residents received induced abortions, an increase of 12.2 percent over the 1977 figure of 25,399. Only 103 reports of abortions to Virginia residents were received from other areas since there is no regular interchange of abortion information among states. In addition to the 28,389 Virginia resident induced abortions that occurred in the State, 2,053 were performed in Virginia for residents of other areas. These make a total of 30,442 induced abortions occurring in Virginia in 1978, 13.5 percent more than in the previous year.

INDUCED ABORTIONS, VIRGINIA, 1978

Location	Total	White	Nonwhite
Occurring in Virginia	<u>30,442</u>	<u>20,982</u>	<u>9,460</u>
Residents of Virginia	28,389	19,556	8,833
Residents of other areas	2,053	1,426	627
Occurring to Virginia residents	<u>28,492</u>	<u>19,642</u>	<u>8,850</u>
In Virginia	28,389	19,556	8,833
Out-of-state	103	86	17

Over two-thirds (68.9 percent) of the 28,492 Virginia residents known to have had induced abortions were white. The induced abortion rate per 1,000 white women aged 15-44 was 19.5; the comparable figure for nonwhites was 36.4, nearly twice as high. The State figure for all women was 22.8 per 1,000 females aged 15-44.

RESIDENT INDUCED ABORTIONS BY AGE OF MOTHER BY RACE WITH AGE SPECIFIC RATES PER 1,000 FEMALES, VIRGINIA, 1978

Age	Numbers			Rates per 1,000 Females		
	Total	White	Nonwhite	Total	White	Nonwhite
TOTAL	28,492	19,642	8,850	22.8	19.5	36.4
Under 15*	378	187	191	8.8	5.7	19.7
15-19	9,319	6,968	2,351	38.1	36.5	43.7
20-24	9,850	6,638	3,212	38.4	32.7	60.4
25-29	4,813	3,068	1,745	20.6	16.3	38.7
30-34	2,534	1,705	829	12.4	10.2	22.7
35-39	1,199	807	392	7.2	5.8	13.6
40-44	331	223	108	2.3	1.9	4.2
45 & over**	30	20	10	1.1	0.9	2.0
Not stated	38	26	12			

Rates based on females aged 14* and 45** only.

Age categories 15-19 and 20-24 each accounted for approximately one-third of Virginia's resident abortions. The age-specific rates for these groups, 38.1 and 38.4 per 1,000 women, were also similar. The median ages for total, white and nonwhite groups were 22.0, 21.7 and 22.7, respectively. While the median age for white women having induced abortions has remained about the same over the past four years, the nonwhite median age has been increasing.

MEDIAN AGES OF RESIDENT WOMEN RECEIVING INDUCED ABORTIONS BY RACE
VIRGINIA, 1971-1978

Year	Total	White	Nonwhite
1971	23.1	N.A.	N.A.
1972	22.5	N.A.	N.A.
1973	22.3	22.8	21.8
1974	21.6	21.5	21.7
1975	21.6	21.5	21.9
1976	21.8	21.6	22.0
1977	21.8	21.5	22.2
1978	22.0	21.7	22.7

More than three-fourths (77.3 percent) of the women receiving induced abortions in 1978 were not married to the father at the time of the abortion. The comparable figure for 1978 live births was 17.1. The illegitimacy rate for induced abortions for 1978 has increased 21.5 percent from the rate of 63.6 in 1971, the first full year after the legalizing legislation.

RESIDENT ILLEGITIMATE INDUCED ABORTIONS BY AGE OF MOTHER
BY PERCENT ILLEGITIMATE, VIRGINIA, 1978

Age	Illegitimate			Percent Illegitimate		
	Total	White	Nonwh	Total	White	Nonwh
TOTAL	22,021	15,058	6,963	77.3	76.7	78.7
Under 15	377	186	191	99.7	99.5	100.0
15-19	8,796	6,514	2,282	94.4	93.5	97.1
20-24	7,769	5,200	2,569	78.9	78.3	80.0
25-29	3,073	1,895	1,178	63.8	61.8	67.5
30-34	1,329	833	496	52.4	48.9	59.8
35-39	510	321	189	42.5	39.8	48.2
40-44	129	84	45	39.0	37.7	41.7
45 & over	9	5	4	30.0	25.0	40.0
Not stated	29	20	9			

The percentages of induced abortions that were illegitimate were highest for the youngest age groups and decreased as age at abortion increased for both races. The nonwhite rates, however, were higher than the white rates at all age levels.

Of the 28,492 resident abortions, 97.8 percent were under 20 weeks gestation and over one-third (37.7 percent) were 8-9 weeks gestation. Only 1.3 percent of the induced abortions were 20 weeks or more gestation.

For 26,917 or 94.5 percent of the induced abortions, suction curettage was the procedure used to terminate pregnancy. Sharp curettage was done for 404 terminations. Intra-uterine saline instillation and intra-uterine prostaglandin instillation were the methods used for 642 or 87.6 percent of the 733 pregnancy terminations of 18 weeks or more gestation.

RESIDENT INDUCED ABORTIONS
PROCEDURES USED TO TERMINATE PREGNANCY BY GESTATION
VIRGINIA, 1978

Procedure	Total	Gestation (in Weeks)							
		Under 6	6-7	8-9	10-11	12-13	14-19	20 & Over	Unk.
TOTAL	28,492	770	7,097	10,732	6,085	1,699	1,480	373	256
Suction Curettage	26,917	714	6,925	10,569	6,013	1,632	836	25	203
Sharp Curettage	404	41	137	129	44	26	10	1	16
Intra-uterine saline instillation	864	3	2	8	3	23	483	319	23
Intra-uterine prostaglandin instillation	167	2	3	1	2	5	128	22	4
Hysterectomy	27	2	8	4	5	2	5		1
Hysterotomy	21	1	1	4	2	3	9	1	
Other	31	1	8	4	5		7	3	3
Unknown	61	6	13	13	11	8	2	2	6

The largest number of induced abortions (3,389) was reported for residents of Fairfax County. Following were Richmond City with 2,694, Norfolk with 2,116, Virginia Beach with 1,860, Henrico with 1,485, and Newport News with 1,040. All other areas had less than 1,000 residents receiving induced abortions.

NATURAL FETAL DEATHS

Natural fetal deaths, as shown below for the years 1970-1978, are the total fetal deaths for those years less the instances where the pregnancy termination was indicated as induced. These figures appear to be influenced somewhat by the changing legislation regarding induced abortions; specifically, the 1970 ruling allowing abortions for specified medical or psychological reasons and the 1973 ruling eliminating the necessity for reasons.

RESIDENT NATURAL FETAL DEATHS BY RACE
VIRGINIA, 1970-1978

Year	Total	White	Nonwhite
1970	6,840	5,303	1,537
1971	6,096	4,600	1,496
1972	5,915	4,382	1,533
1973	5,572	4,148	1,424
1974	5,597	4,211	1,386
1975	5,817	4,243	1,574
1976	6,069	4,389	1,680
1977	6,186	4,466	1,720
1978	6,131	4,390	1,741

Resident natural fetal deaths totaled 6,131 in 1978 reflecting a 0.9 percent decrease from the previous year. The rate was 83.6 per 1,000 live births.

Less than 15 percent of the natural fetal deaths occurred at 20 weeks or more gestation; for nonwhites, the percentage was 18.8, much higher than the comparable figure for whites.

RESIDENT NATURAL FETAL DEATHS, RACE BY LENGTH OF GESTATION
VIRGINIA, 1978

Length of Gestation	Total		White		Nonwhite	
	No.	Percent	No.	Percent	No.	Percent
TOTAL	<u>6,131</u>	<u>100.0</u>	<u>4,390</u>	<u>100.0</u>	<u>1,741</u>	<u>100.0</u>
Under 20 weeks	5,243	85.5	3,830	87.2	1,413	81.2
20-27 weeks	390	6.4	224	5.1	166	9.5
28 weeks & over	498	8.1	336	7.7	162	9.3

The median age of women having natural fetal deaths was 25.7 in 1978. This compares to 25.2 for live births and 22.0 for induced abortions. Natural fetal deaths accounted for 5.7 percent of total pregnancies that ended during 1978. This statistic ranged from 4.2 percent for ages 15-19 and increased with each older age group to a high of 20.3 percent for women 45 and over.

NATURAL FETAL DEATHS BY AGE WITH PERCENT OF TOTAL PREGNANCY TERMINATIONS
VIRGINIA, 1978

Natural Fetal Deaths	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
Number	6,131	36	935	1,832	1,714	1,043	417	113	16	25
Percent of Pregnancy Terminations	5.7	5.2	4.2	5.2	5.9	6.9	9.2	12.5	20.3	

A non-specific reason was mentioned for the cause of the fetal death on 81.1 percent of these records. Of the 1,158 specified causes, ectopic pregnancy with 373 placed first. Conditions in the placenta (220) and anoxic and hypoxic disease (187) ranked second and third.

RESIDENT DEATHS

In 1978, the number of deaths of Virginia residents was 40,649, an increase of 905, or 2.3 percent, over the 39,744 deaths reported in 1977. The resulting death rate of 7.9 per 1,000 population was somewhat higher than the 7.7 rate for 1977. The comparable estimated rate for the United States was 8.8 per 1,000 population in 1978.

NUMBER OF RESIDENT DEATHS AND DEATH RATES PER 1,000 POPULATION BY RACE
VIRGINIA, 1973-1978

Year	Total		White		Nonwhite	
	Number	Rate	Number	Rate	Number	Rate
1973	41,103	8.5	31,536	8.0	9,567	10.8
1974	40,561	8.3	31,298	7.8	9,263	10.4
1975	39,543	8.0	30,522	7.5	9,021	10.0
1976	40,056	8.0	30,946	7.6	9,110	9.7
1977	39,744	7.7	30,642	7.3	9,102	9.6
1978	40,649	7.9	31,497	7.6	9,152	9.2

For all Virginia residents, the median age at death was 70.0 -- a 0.5 year increase over the 69.5 median age in 1977. The 1978 median age at death for whites increased by 0.5 years in 1978, while the nonwhite median age increased by 1.1 years. The median age at death for Virginia males increased by 0.6 years, while the female figure increased by 0.5 years.

MEDIAN AGE AT DEATH BY RACE BY SEX
VIRGINIA, 1977 AND 1978

Sex	Total		White		Nonwhite	
	1977	1978	1977	1978	1977	1978
Total	69.5	70.0	70.6	71.1	64.9	66.0
Male	66.5	67.1	67.5	67.9	62.9	64.0
Female	73.9	74.4	75.3	75.8	68.1	68.8

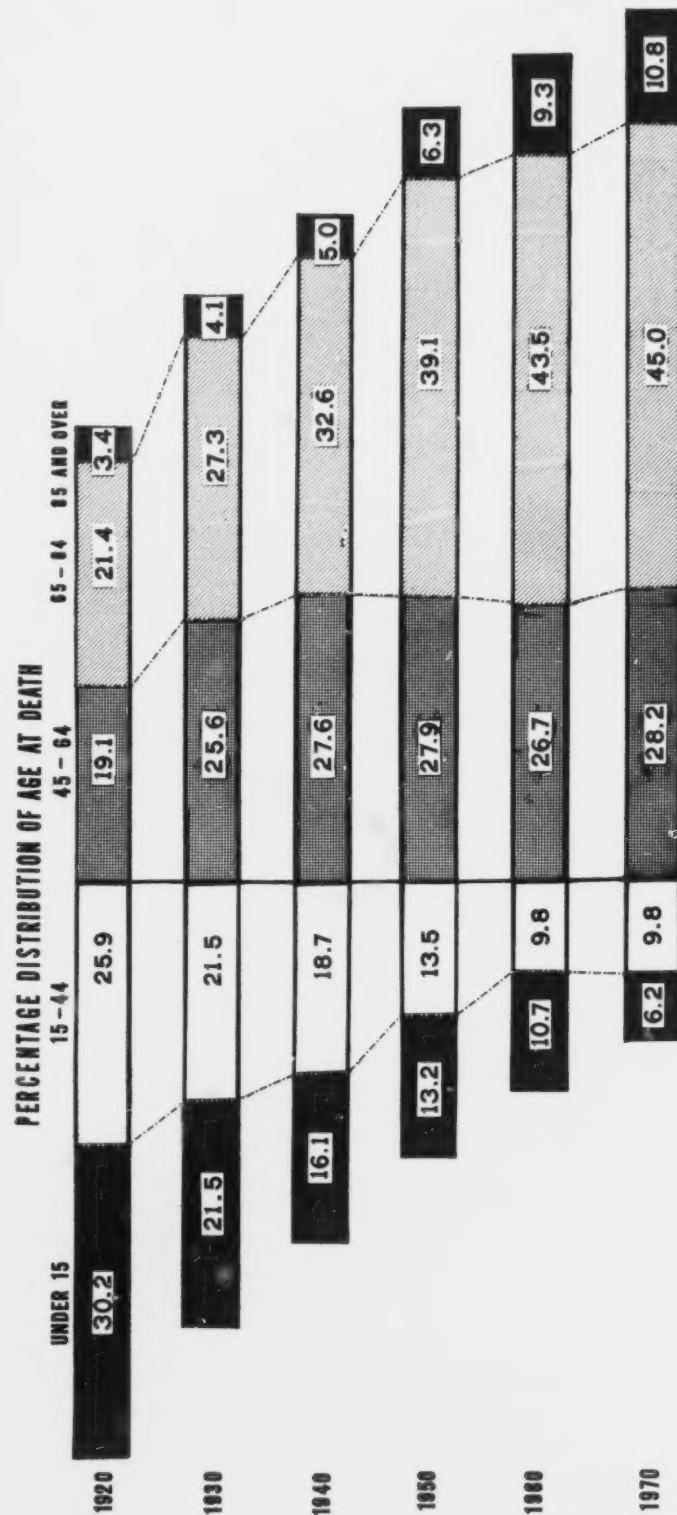
Of the total resident deaths, 5.7 percent occurred outside the State. The District of Columbia or one of the states that border Virginia accounted for 83.3 percent of these deaths. Of the 1,864 deaths which occurred to out-of-state residents in Virginia, 67.8 percent involved those who were residents of the bordering areas.

DEATHS INVOLVING VIRGINIA AND BORDERING AREAS, 1978

Area	Virginia residents dying out-of-state		Out-of-state residents dying in Virginia	
	Number	Percent	Number	Percent
TOTAL	2,317	100.0	1,864	100.0
Tennessee	548	23.7	96	5.1
District of Columbia	389	16.8	89	4.8
North Carolina	339	14.6	453	24.3
Maryland	332	14.3	180	9.7
West Virginia	283	12.2	412	22.1
Kentucky	38	1.7	34	1.8
Other	388	16.7	600	32.2

January had the greatest frequency of deaths with 4,223 and also the largest daily average (136). The smallest number of deaths occurred in August (3,116) which also had the lowest daily average of 101.

Chart E CHANGING PATTERNS IN MORTALITYVIRGINIA SINCE 1920



NOTE: PERCENTAGE DISTRIBUTIONS ARE BASED ON THREE YEARS AROUND THE DECENNIAL YEAR.

DAILY AVERAGE OF RESIDENT DEATHS BY MONTH
VIRGINIA, 1978

Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
111	136	123	115	110	107	106	102	101	108	110	105	115

Leading Causes of Death. During the past 28 years, the four leading causes of death have been diseases of the heart, malignant neoplasms, cerebrovascular disease, and accidents, ranking first to fourth, respectively, each year. These four causes together have accounted for more than seven out of every ten Virginia resident deaths since 1966.

LEADING CAUSES OF RESIDENT DEATHS BY RACE AND SEX
VIRGINIA, 1978

Cause	Total		White				Nonwhite			
			Male		Female		Male		Female	
	Number	Rank	Number	Rank	Number	Rank	Number	Rank	Number	Rank
<u>ALL CAUSES</u>	40,649		17,408		14,089		5,226		3,926	
Diseases of the heart (390-398,402,404, 410-429)	15,275	1	6,860	1	5,410	1	1,649	1	1,356	1
Malignant neoplasms (140-209)	8,117	2	3,423	2	2,869	2	1,059	2	766	2
Cerebrovascular disease (430-438)	3,746	3	1,173	4	1,673	3	421	4	479	3
Accidents, all types (E800-E949)	2,404	4	1,266	3	555	4	446	3	137	4
Influenza & pneumonia (470-474,480-486)	1,292	5	559	5	480	5	164	6	89	6½
Suicide (E950-E959)	732	6	487	6	173	8	53	10	19	14
Diabetes mellitus (250)	629	7	159	11	242	7	94	8	134	5
Arteriosclerosis (440)	563	8	177	9	282	6	45	12	59	9
Cirrhosis of liver (571)	553	9	280	7	133	9	74	9	66	8
Certain causes of mortal- ity in early infancy (760-778)	480	10½	148	12	124	11	119	7	89	6½
Homicide (E960-E978)	480	10½	165	10	71	14	193	5	51	10
Other causes	6,378		2,711		2,077		909		681	

NOTE: Numbers in parentheses are from ICDA, 8th Revision.

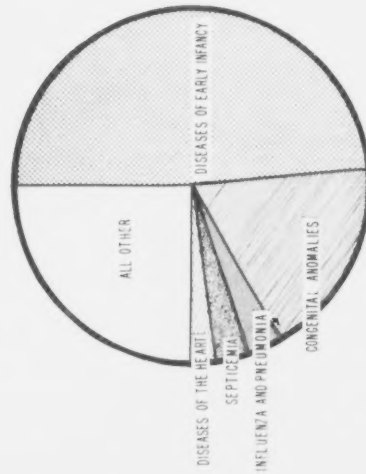
The overall trend for the number as well as the rate of deaths due to malignant neoplasms has been increasing. In Virginia, both were at their all-time high in 1978. The respiratory system with 2,287 and the digestive organs and peritoneum with 1,998 were the sites most often reported as primary. These sites accounted for more than one-half of all resident deaths attributed to malignant neoplasms.

Chart F

LEADING CAUSES OF DEATH BY SELECTED AGE GROUPS

VIRGINIA, 1978

INFANT UNDER 1 YEAR



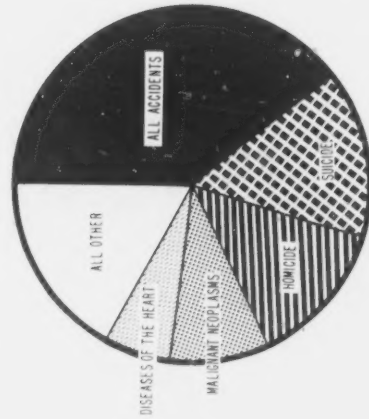
PRESCHOOL, 1-4 YEARS



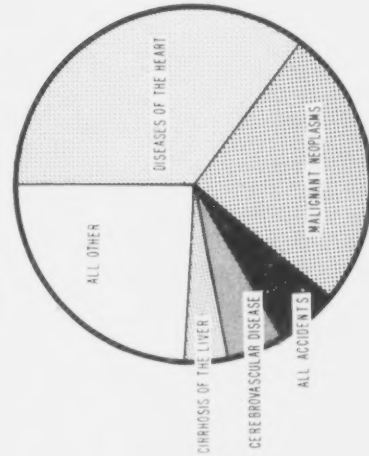
SCHOOL, 5-19 YEARS



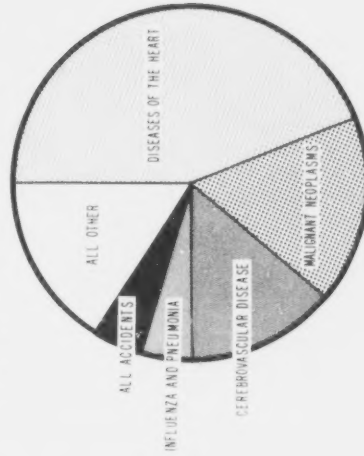
YOUNG ADULT, 20-34 YEARS



ADULT, 35-64 YEARS



RETIRED, 65 YEARS AND OVER



NUMBER AND RATE PER 100,000 POPULATION FOR THE MAJOR CAUSES OF DEATH
FOR SELECTED YEARS, VIRGINIA, 1950-1978

Year	Diseases of the Heart		Malignant Neoplasms		Cerebrovascular Diseases		All Accidents	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	9,941	299.5	3,389	102.1	3,653	110.1	2,058	62.0
1955	10,825	295.8	4,058	110.9	3,881	106.1	2,005	54.8
1960	12,512	314.1	4,730	118.8	4,153	104.3	2,000	50.2
1965	13,698	309.5	5,534	125.0	4,256	96.2	2,442	55.2
1970	14,494	310.7	6,383	136.8	4,175	89.5	2,588	55.5
1975	14,587	293.7	7,463	150.3	3,932	79.2	2,508	50.5
1976	14,895	296.0	7,533	149.7	3,958	78.7	2,385	47.4
1977	14,460	281.6	7,962	155.1	3,852	75.0	2,597	50.6
1978	15,275	296.7	8,117	157.7	3,746	72.8	2,404	46.7

Accidental Deaths. Accidents were responsible for the deaths of 2,404 Virginia residents in 1978 -- a 7.4 percent decrease from 1977. The accidental death rate for 1978 was 46.7 per 100,000 population compared to the provisional United States rate of 49.5.

As in previous years, accidents was the leading cause of death for Virginians in age groups 1-4 years, 5-14 years, 15-24 years and 25-44 years. These age groups accounted for only 3,853, or 9.5 percent, of the total 40,649 deaths; but, 52.8 percent of all accidental deaths occurred in these age groups. Accidents accounted for 750, or 53.0 percent of the 1,414 deaths of Virginians aged 1 through 24.

RESIDENT DEATHS FROM ACCIDENTS AND CAUSES OTHER THAN ACCIDENTS
WITH PERCENTAGES OF TOTAL DEATHS IN SPECIFIED AGE GROUPS, VIRGINIA, 1978

Age	Accidental Deaths		Non-Accidental Deaths	
	Number	Percent	Number	Percent
TOTAL	2,404	5.9	38,245	94.1
Under 1	21	2.1	968	97.9
1-4	52	31.3	114	68.7
5-14	123	48.4	131	51.6
15-24	575	57.8	419	42.2
25-44	520	21.3	1,919	78.7
45-64	526	4.9	10,127	95.1
65-74	236	2.4	9,638	97.6
75 and over	350	2.3	14,919	97.7
Unknown	1		10	

Males accounted for 71.2 percent of the accidental deaths compared to 55.7 percent of all deaths. White males alone were over half (52.7 percent) of the accidental death victims. For all major types of accidents males had a much higher number of deaths than females.

Motor vehicles was again the major cause of accidental deaths contributing 45.0 percent of the total. The 1,081 motor vehicle deaths represented a 9.2 percent decrease compared to 1977. The motor vehicle death rate for 1978 was 21.0 per 100,000 population compared to the United States rate of 24.6 for the same year. Of the total motor vehicle fatalities, 63.3 percent were in the age group 15 through 44.

RESIDENT ACCIDENTAL DEATHS BY LEADING TYPES OF ACCIDENTS BY SEX
VIRGINIA, 1978

Type of Accident	Total	Male	Female
TOTAL	2,404	1,712	692
Motor vehicle (E810-E823)	1,081	801	280
Falls (E880-E887)	373	192	181
Fires (E890-E899)	175	112	63
Poisoning, all types (E850-E877)	133	89	44
Drowning and submersion (E910)	127	104	23
Falling or projected object (E916-E918)	77	73	4
Suffocation from inhaled or ingested object (E911-E912)	65	38	27
Excessive heat, cold, exposure (E900-E904)	49	41	8
Firearms (E922)	36	30	6
Water transport (E830-E838)	33	31	2
Mechanical suffocation (bed, cradle, other) (E913)	29	20	9
Electric current (E925)	25	25	
Aircraft (E840-E845)	25	21	4
Vehicles and machinery not elsewhere classifiable (E927-E928)	25	25	
All other	151	110	41

NOTE: Numbers in parentheses are from ICDA, 8th Revision.

The second major cause of accidental deaths was falls, representing 15.5 percent of the total. Of these deaths due to falls, 71.3 percent occurred to those who were 65 years or older.

Of the total accidental deaths, 562, or 23.4 percent, occurred on the home premises. The two principal causes for home accidents were falls (208 deaths) and fire and flames (159 deaths), representing 65.3 percent of all home accidental deaths. There were 19 firearm fatalities in the home representing 52.8 percent of the total accidental deaths by this means. Six of the home accident deaths involved motor vehicles.

CLASSIFICATION OF RESIDENT ACCIDENTAL DEATHS BY RACE, VIRGINIA, 1978

Classification of Accident	Total	White	Nonwhite
TOTAL ACCIDENTAL DEATHS	2,404	1,821	583
Accidental deaths specified as to type:	2,349	1,785	564
Motor vehicle (E810-E823)	1,081	848	233
Other transport (E800-E807, E825-E845)	78	66	12
Home (E850-E929, home)	551*	398	153
Other (E850-E929, residual)	639	473	166
Therapeutic misadventures (E930-E931)	26	16	10
Complications due to non-therapeutic medical and surgical procedures (E932-E936)	4	4	
Late effects of accidental injury and poisoning (E940-E946)	21	12	9
Late effects of medical and surgical procedures (E947-E949)	4	4	

NOTE: Numbers in parentheses are from ICDA, 8th Revision.

*Eleven deaths previously referenced as "home" are included in other categories above.

Persons 65 years and older were victims in 43.5 percent of the home accident fatalities. This age group accounted for 74.0 percent of the accidental fall deaths and 29.6 percent of the accidental fire and flame deaths in the home.

Suicide. Suicide, the sixth leading cause of death in 1978, has been among the ten leading causes of death since 1965. There were 732 suicide deaths recorded for Virginia residents in 1978, representing a decrease of 9.3 percent from the 807 occurring in 1977. This is the first year that suicides have decreased in number since 1973. The resulting rate, 14.2 deaths per 100,000 population, was higher than the United States rate of 12.6 for 1978.

Suicides were more frequent among whites than nonwhites. While nonwhites comprised 19.3 percent of the population in 1978, only 9.8 percent of the suicidal deaths occurred in that group. Of all suicides, 66.5 percent involved white males; 23.6 percent, white females; 7.2 percent, nonwhite males; and 2.6 percent, nonwhite females.

RESIDENT SUICIDES BY AGE, BY RACE AND SEX
WITH RATES PER 100,000 POPULATION, VIRGINIA, 1978

Race/Sex	Total	Age Groups							
		Under 15	15-24	25-34	35-44	45-54	55-64	65-74	75 and Over
TOTAL	<u>732</u>	<u>2</u>	<u>119</u>	<u>154</u>	<u>98</u>	<u>125</u>	<u>114</u>	<u>80</u>	<u>40</u>
White male	487	2	83	96	54	84	81	56	31
White female	173		20	38	33	33	23	19	7
Nonwhite male	53		12	16	9	6	6	2	2
Nonwhite female	19		4	4	2	2	4	3	
Rates*									
TOTAL	<u>14.2</u>		<u>11.8</u>	<u>17.6</u>	<u>15.8</u>	<u>23.0</u>	<u>24.1</u>	<u>26.3</u>	<u>22.5</u>
White male	23.7		20.5	26.7	20.8	38.1	44.4	52.9	62.1
White female	8.1		5.1	10.7	12.9	14.3	11.1	13.3	7.3
Nonwhite male	11.0		11.6	20.6	18.6	13.8	15.3	8.0	16.3
Nonwhite female	3.7		3.7	4.9	3.7	4.0	9.1	9.7	0.0

*Rates for totals of Race/Sex groups based on ages 15 and over.

The largest percentage of those taking their own lives, 21.0 percent, was for the group aged 25-34 years. The greatest age specific rate, however, occurred for persons aged 65-74 years. In regard to age-race-sex specific rates, white male rates were highest for all age groups. Except for age group 35-44, the rates for white males increased as age increased.

In 1978, after accidents, suicide was the second leading cause of death for the age group 15-24; and it was the fourth leading cause for the age group 25-44 (after accidents, heart disease and cancer).

Firearms and explosives were the implements used in 68.9 percent of the suicides. Of the 504 deaths by this means, 50.0 percent were aged 15-44 years. This method was used by 371, or 76.2 percent, of the 487 white males committing suicide and by 38, or 71.7 percent, of the nonwhite males. The second most used method in 1978, poisoning by drugs and medicaments, was responsible for 74, or 10.1 percent, of the total suicides; 59.5 percent of these were white females and 35.1 percent were white males.

RESIDENT SUICIDES BY RACE, SEX AND METHOD
VIRGINIA, 1978

Method	Total	Race/Sex			
		White Male	White Female	Nonwh Male	Nonwh Female
TOTAL	732	487	173	53	19
Firearms and explosives (E955)	504	371	88	38	7
Poisoning by drugs and medicaments (E950.0-E950.3)	74	26	44	1	3
Hanging, strangulation, and suffocation (E953)	57	41	9	4	3
Poisoning by domestic and other gases (E951-E952)	30	21	9		
Submersions (drownings) (E954)	22	5	9	4	4
Jumping from high places (E957)	11	7	3	1	
Poisoning by other solid and liquid substances (E950.4-E950.9)	10	4	4	1	1
Cutting and piercing instruments (E956)	6	2	3	1	
Other and unspecified means (E958)	17	9	4	3	1
Late effects (E959)	1	1			

NOTE: Numbers in parentheses are from ICDA, 8th Revision.

Homicides. Of the 40,649 deaths occurring to Virginia residents in 1978, homicides accounted for 1.2 percent, making it tie for the tenth leading cause of death. The total, 480, represented a decrease of 0.4 percent from the 482 homicidal deaths in 1977. Virginia's death rate resulting from homicides was 9.3 per 100,000 population, lower than the State's 9.4 rate of 1977 and also lower than the United States rate of 9.7 in 1978.

In 1978, 236 of the homicide victims were white and 244 were nonwhite, producing rates of 5.7 and 24.5 per 100,000 population, respectively. Homicide was the fifth ranking cause of death for nonwhite males, the tenth for nonwhite females, the tenth for white males, and the fourteenth for white females.

RESIDENT HOMICIDE DEATHS BY RACE BY METHOD
VIRGINIA, 1978

Method	Total	White	Nonwhite
TOTAL	480	236	244
Assault by:			
Firearms and explosives (E965)	341	165	176
Cutting and piercing instruments (E966)	59	18	41
Hanging and strangulation (E963)	11	6	5
Poisoning (E962)	1	1	
Other and unspecified means (E968)	55	38	17
Fight, brawl, rape (E960)	2	1	1
Late effect of injury purposely inflicted by another person (E969)	4	2	2
Injury due to legal intervention (E970-E978)	7	5	2

NOTE: Numbers in parentheses are from ICDA, 8th Revision.

Homicide was the third leading cause of death for the 15-24 age group and fifth for the 1-4 and 25-44 age groups. The median age of death for homicide victims was 34.3 years. For nonwhite males, it was 33.2 years, and for white males, 36.1 years.

Firearms and explosives were the implements used in 71.0 percent of the homicides in 1978. Assault by cutting and piercing instruments, with 59, was the second most frequently used homicidal method. Seven deaths were the result of injuries inflicted through legal intervention.

MARRIAGES

The 58,967 marriages performed in Virginia during 1978 marked an increase of 1,189, or 2.1 percent, over the number recorded the previous year, and represents the highest number on record. The rate of 11.5 per 1,000 population for 1978 was higher than the United States provisional rate of 10.3 per 1,000 population.

MARRIAGES BY RACE AND SEX VIRGINIA, 1978

Race/Sex	Total	White Females	Black Females	Other Females
TOTAL	58,967	50,369	8,105	493
White males	50,187	49,820	143	224
Black males	8,397	415	7,951	31
Other males	383	134	11	238

Marriages between white males and white females increased 2.0 percent over the previous year, while for marriages where both parties were black, there was a 2.4 percent increase.

There were 958 interracial marriages in 1978, with 558 of these being between whites and blacks. A total of 415 involved black males and white females, and 143 were between white males and black females. Forty-two marriages were recorded between persons classified as black and "other" race, while 358 involved "other" race and whites.

For 41,457 marriages (70.3 percent), both the bride and the groom were residents of Virginia. There were 3,162 (5.4 percent) marriages between resident brides and non-resident grooms, and 1,150 (2.0 percent) between non-resident brides and resident grooms.

Marriages in which both bride and groom were non-residents of Virginia numbered 13,195 in 1978, 22.4 percent of the total number of marriages performed. This was an increase of 0.6 percent over the 1977 number of 13,122. States of residence most frequently reported by non-resident brides and grooms married in Virginia were West Virginia, Kentucky, Ohio and Pennsylvania.

Richmond, with 3,293, led the State in the number of marriages performed. Following in descending order were Norfolk (2,932), Fairfax (2,929), Dickenson (2,815) and Arlington (2,457). These five cities and counties accounted for 24.5 percent of the marriages in 1978.

MARRIAGES WHERE AT LEAST ONE PARTY WAS A NONRESIDENT
BY STATE OF RESIDENCE, VIRGINIA, 1978

State of Residence	Both from Same State	Bride's State	Groom's State
West Virginia	2,931	3,217	3,214
Kentucky	2,391	2,575	2,570
Ohio	2,271	2,446	2,534
Pennsylvania	1,267	1,399	1,466
North Carolina	535	722	1,011
District of Columbia	495	661	678
Maryland	478	738	896
Tennessee	446	563	657
New York	244	358	752
Indiana	185	214	247
Michigan	139	187	237
New Jersey	125	174	247

The most frequently stated age for grooms in 1978 was twenty-two. This varied from the long time stable twenty-one of the previous years. The most frequently stated age for brides remained eighteen. Marriages involving brides under twenty-one constituted 34.3 percent of the total marriages, whereas the percent for grooms was 18.5. Couples where both parties were under twenty-one constituted 15.9 percent of the total marriages. Among the brides, 15,630, or 26.5 percent, and among the grooms, 6,820, or 11.6 percent, were teenagers. The median ages for brides and grooms married in 1978 were 23.2 and 25.6 years, respectively. Comparable 1977 median ages were 22.9 and 25.3.

The 31,415 first marriages for both parties in 1978 accounted for 53.3 percent of the total marriages. The median ages for brides and grooms married for the first time were 20.5 and 22.5.

Brides who had been married previously represented 34.9 percent of the total brides and previously married grooms represented 36.0 percent of the 1978 grooms. In 1977, the percentages for previously married brides and grooms were 34.1 and 35.0, respectively.

MARRIAGE CEREMONIES, NUMBER AND PERCENT
BY TYPE OF OFFICIANT, VIRGINIA, 1978

Type of Officiant	Number	Percent
TOTAL	58,967	100.0
Religious ceremonies	<u>44,693</u>	<u>75.8</u>
Protestant	40,842	69.3
Catholic	2,174	3.7
Jewish	218	0.3
Other denomination	932	1.6
Denomination unknown	527	0.9
Civil	14,263	24.2
Unknown	11	*

*Less than 0.05 percent

The 44,693 religious ceremonies accounted for 75.8 percent of the total 1978 marriages. Protestant clergymen officiated for 91.4 percent of the religious ceremonies and Catholic clergymen officiated for 4.9 percent.

The number of civil ceremonies (14,263) increased by 5.1 percent over the 1977 figure of 13,576. Civil ceremonies accounted for 24.2 percent of the total marriages in 1978.

June, as in most previous years, was the most popular month for marriages in 1978. During that month, 7,000 marriages were performed with 79.6 percent of these being religious ceremonies. July with 6,264 and August with 6,041 marriages were the second and third most popular months for marriage in 1978. The fewest marriages occurred in January with 2,770. The daily averages for the months are given in the table below.

DAILY AVERAGE OF MARRIAGES BY MONTH
VIRGINIA, 1978

Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
162	89	113	128	154	163	233	202	195	190	150	150	169

Of the 37,689 grooms marrying for the first time, 73.9 percent had completed at least 12 years of school. Among the 31,174 white grooms married for the first time, 18.5 percent had finished four or more years of college, while 10.3 percent of the 6,515 nonwhite grooms had finished four or more years of college.

Brides marrying for the first time totaled 38,381 with 75.2 percent completing at least four years of high school. White and nonwhite brides completing four or more years of college were 16.3 and 12.5 percent, respectively.

PERCENT COMPLETING LAST GRADE FOR BRIDES AND GROOMS
MARRYING FOR THE FIRST TIME BY RACE
VIRGINIA, 1978

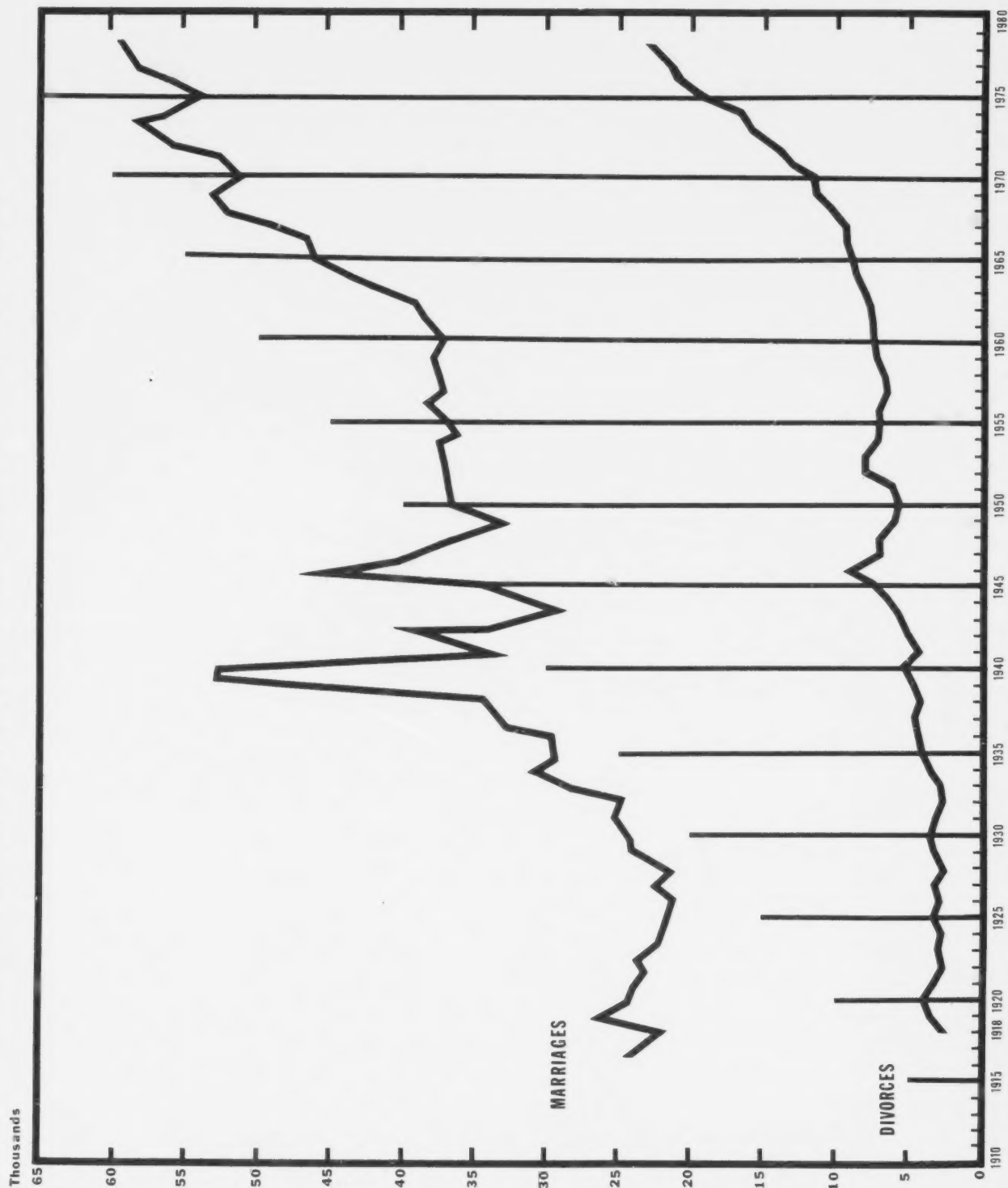
Race	Total	Elem.		High School		College		Unk.
		0-6	7-8	9-11	12	1-3	4 or more	
Groom								
Total	100.0	1.3	4.5	20.3	40.9	15.9	17.1	*
White	100.0	1.1	4.5	20.1	40.0	15.8	18.5	*
Nonwhite	100.0	2.3	4.1	21.1	45.5	16.6	10.3	0.1
Bride								
Total	100.0	0.8	3.2	20.8	42.4	17.1	15.6	0.1
White	100.0	0.7	3.2	21.2	41.6	16.9	16.3	0.1
Nonwhite	100.0	1.2	3.1	18.7	46.0	18.4	12.5	0.1

*Less than 0.05 percent

Of the 21,266 grooms previously married, 69.6 percent had completed at least 12 years of school, and 16.7 percent had finished four years of college. For the 20,567 previously married brides, 67.8 percent had completed at least high school and 8.8 percent had finished four years of college.

Chart G

MARRIAGES AND DIVORCES IN VIRGINIA SINCE 1918



DIVORCES AND ANNULMENTS

The total of 22,654 divorces and annulments granted in 1978 gave Virginia a rate of 4.4 per 1,000 population which was higher than the rate of 4.2 for 1977. Although the 1978 rate was the highest divorce rate on record in Virginia, it was still lower than the 1978 provisional rate of 5.2 for the United States.

The 1978 Virginia total represented a 5.6 percent increase over the 21,459 divorces and annulments recorded in 1977. This increase was significantly higher than the 0.4 percent increase from 1976 to 1977.

In 1978, there were 269 interracial divorces with 90 separating white and black persons. Nineteen divorces involved white males and black females, and 71 involved black males and white females. Fourteen divorces were granted between persons classified as "other" races and blacks, while 165 divorces involved whites and "others".

DIVORCES AND ANNULMENTS BY RACE AND SEX VIRGINIA, 1978

Race/Sex	Total	White Females	Black Females	Other Females
TOTAL	22,654	19,179	3,293	182
White males	19,182	19,053	19	110
Black males	3,355	71	3,272	12
Other males	117	55	2	60

Of the total divorces and annulments, 39.1 percent were granted to persons who were married outside of Virginia.

In 1978, children under 18 were involved in 54.6 percent of the total divorces and annulments. There were approximately 21,323 such children, 467 more than in 1977. In 45.7 percent of the divorces the couples had one or two children, while 8.9 percent of the divorces involved couples with three or more children. Of the divorces in which the husband was white, 53.2 percent had one or more children as compared to 62.0 percent for those divorces in which the husband was nonwhite.

PERCENT OF DIVORCES AND ANNULMENTS WITH NUMBER OF CHILDREN IN FAMILY BY RACE OF HUSBAND, VIRGINIA, 1978

Children Per Family (18 years and under)	Total	White		Nonwhite	
		Number	Percent	Number	Percent
TOTAL	22,654	19,182	100.0	3,472	100.0
None	9,800	8,526	44.4	1,274	36.7
1 child	6,211	5,179	27.0	1,032	29.7
2 children	4,143	3,477	18.1	666	19.2
3 children	1,437	1,162	6.1	275	7.9
4 or more children	571	392	2.1	179	5.2
Not stated	492	446	2.3	46	1.3

In 1978, the median age at divorce for all men was 32.5 years, and 30.3 years for all women. Wives under twenty-one were involved in 4.6 percent of all divorces and annulments occurring in 1978, while only 1.3 percent of divorces involved husbands who were under twenty-one.

Virginia law allows divorce for only a limited number of reasons. In 1978, a total of 77.6 percent of the divorces were granted on grounds of separation for more than one year and 17.7 percent, for desertion. In 61.3 percent of the cases, the divorce was granted to the wife. Annulments totaled 104 in 1978.

NUMBER OF DIVORCES AND ANNULMENTS BY CAUSE WITH PERCENT
BY PERSON TO WHOM DIVORCE WAS GRANTED, VIRGINIA, 1978

Cause	Total	Person to Whom Granted					
		Husband		Wife		Other/Unknown	
		Number	Percent	Number	Percent	Number	Percent
TOTAL	22,654	8,650	38.2	13,884	61.3	120	0.5
Separation	17,585	6,942	39.5	10,552	60.0	91	0.5
Desertion	3,999	1,413	35.3	2,566	64.2	20	0.5
Cruelty	442	49	11.1	391	88.5	2	0.4
Adultery	412	210	51.0	200	48.5	2	0.5
Imprisonment	97	3	3.1	94	96.9		
Other & Unknown	15	4	26.7	11	73.3		
Annulments	104	29	27.9	70	67.3	5	4.8

Couples for which both parties were ending their first marriage accounted for 72.1 percent of the total number of divorces granted. Of the divorced women, 79.9 percent were ending their first marriage and 16.2 percent, their second marriage. The comparable percentages for men getting divorced were 80.6 and 16.0 percent, respectively.

The median duration of the marriage to separation for all divorces remained 5.5 years as in 1977. For divorces in which the husband was white, the median length of time from marriage to separation was 5.7 years, while for divorces in which the husband was nonwhite, the comparable length of time was 4.8 years. For 20.2 percent of the marriages, the couples separated in less than two years, 32.6 percent in 2-5 years, 18.3 percent in 6-9 years, and 28.7 percent in 10 years or more. The duration of marriage was unknown for 0.2 percent of the records.

The largest number of divorces and annulments was granted in Fairfax county (2,686) which includes Fairfax City and Falls Church. This area was followed by Virginia Beach (1,274), Norfolk (1,247), and Richmond city (1,234).

December, with 2,084, was the month with the greatest frequency of divorces. Following in descending order were August (2,079), June (2,077), October (2,030), and May (2,018). The average numbers of divorces per day by month for 1978 are shown in the following table.

DAILY AVERAGE OF DIVORCES AND ANNULMENTS BY MONTH
VIRGINIA, 1978

Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
62	47	52	63	62	65	69	61	67	62	65	63	67

Of the 22,654 husbands receiving divorces in 1978, 15,551, or 68.6 percent had completed at least 12 years of school. Among the 19,182 white husbands, 13,715, or 71.5 percent, had finished 12 years or more of school, while only 1,836, or 52.9 percent, of the 3,472 nonwhite husbands had finished 12 years or more.

PERCENT COMPLETING LAST GRADE FOR HUSBANDS AND WIVES DIVORCED
VIRGINIA, 1978

Race	Total	Elem.		High School		College		Unk.
		0-6	7-8	9-11	12	1-3	4 or more	
Husband								
Total	100.0	3.7	7.6	16.7	36.8	13.9	17.9	3.4
White	100.0	3.1	7.2	15.5	37.2	14.3	20.0	2.7
Nonwhite	100.0	7.1	9.8	23.4	34.6	11.5	6.8	6.8
Wife								
Total	100.0	1.8	6.0	18.5	43.2	15.4	12.2	2.9
White	100.0	1.5	5.6	17.5	43.8	15.9	13.1	2.6
Nonwhite	100.0	3.3	8.0	23.9	39.9	12.7	7.4	4.8

Among the wives, 70.8 percent had completed 12 or more years of education. White and nonwhite wives completing 12 or more years of education were 72.8 and 60.0 percent, respectively. Education was unknown for 3.4 percent of the husbands and 2.9 percent of the wives.

WEAPON INFLICTED INJURY REPORTS

In 1976, the General Assembly of Virginia amended Sec. 54-276.10 of the Code of Virginia to require that physicians and others rendering medical aid to victims of injuries believed to be unlawfully inflicted by certain weapons must submit a written report containing statistical data regarding the event to the authorities for forwarding to the State Registrar of Vital Statistics.

During 1978, a total of 1,944 reports on different persons treated for weapon inflicted injuries were filed with the Bureau of Vital Records and Health Statistics. Of this total, 24 victims were injured out-of-state, and 69 victims were residents of other states. The total 1,944 reports gave an annual weapon inflicted injury rate of 37.8 per 100,000 population. A total of 86, or 4.4 percent, of the reported victims died as a result of their injuries.

Of the 1,944 reports on weapon inflicted injury victims, 46.6 percent involved nonwhite males and 34.2 percent involved white males. Nonwhite females accounted for 11.3 percent of the total and white females, for 6.8 percent. The race of the victim was not stated on 1.0 percent of the reports.

Over one-third of the victims of weapon inflicted injuries were in their late teens or early twenties. Victims in the 20-24 age group had an annual weapon inflicted injury report rate of 78.0 per 100,000 population. Nonwhite males had substantially higher rates than white males in each age group. Also, nonwhite females had much higher rates than white females for every age group. The highest race, sex, age specific rate recorded was for nonwhite males aged 25-34 years -- 359.7 per 100,000 population.

WEAPON INFLICTED INJURY REPORTS WITH RATE PER 100,000 POPULATION
BY RACE, SEX, AND AGE, VIRGINIA, 1978

Age	Total	Number						Rate per 100,000 Population				
		White Male	White Fem.	Nonwh Male	Nonwh Fem.	Unk. Male	Unk. Fem.	Total	White Male	White Fem.	Nonwh Male	Nonwh Fem.
TOTAL	1,944	665	133	906	220	18	2	37.8	32.4	6.2	187.7	42.4
Under 15	109	57	13	25	13	1		9.2	12.1	2.9	18.7	9.9
15-19	284	124	22	109	27	2		57.6	63.7	11.5	201.7	50.2
20-24	402	170	26	168	36	2		78.0	80.9	12.8	341.5	67.7
25-34	537	146	39	279	65	7	1	61.4	40.5	11.0	359.7	79.6
35-44	295	74	13	163	42	3		47.7	28.5	5.1	336.2	77.3
45-54	159	43	14	83	17	2		29.2	19.5	6.1	191.3	34.0
55-64	87	23	4	50	10			18.4	12.6	1.9	127.2	22.8
65 & over	36	15	2	13	6			7.5	9.6	0.8	34.8	11.9
Unknown	35	13		16	4	1	1					

All of the 1,944 reports received listed the method by which the victim was injured, and 52 listed more than one method of injury.

WEAPON INFLICTED INJURY REPORTS, METHOD OF INJURY BY AGE
VIRGINIA, 1978

Method of Injury	Total	Age								
		Under 15	15-19	20-24	25-34	35-44	45-54	55-64	65 & Over	Unk.
Shot by Handgun	652	18	66	137	197	109	60	32	22	11
Stabbed by Bowie or Switchblade Knife	613	15	95	122	179	99	58	31	5	9
Shot by Rifle or Shotgun	285	34	55	52	63	39	20	10	7	5
Cut by Razor	75	2	12	23	23	6	4	3		2
Struck by Firearm	71	1	11	17	16	14	8	4		
Shot by Airgun	66	37	16	2	7	2	1		1	
Hit with Blackjack	54		7	18	16	7		3		3
Hit with Metal Knuckles or Flail	43		5	12	13	5	3	1	1	3
Other	137	2	22	30	45	24	7	5		2

Over one-third (33.5 percent) of the victims were shot with a handgun, 31.5 percent were stabbed by a Bowie or switchblade knife, and 14.7 percent were shot with a rifle or shotgun. A total of 51.6 percent, or 1,003 victims, were shot with some type of firearm. Of those injured by firearms, over half (59.3 percent) of the victims were 15-34 years of age.

A total of 1,924 reports specified one or more parts of the body as injured. The head or neck was the most common site injured with 614 reports, or 31.9 percent, specifying this part of the body. The arms or hands with 576 (29.9 percent) was the second most frequent part of the body specified as injured.

As might be expected, most weapon inflicted injuries occurred on weekends with an average of 8.9 per Saturday and 6.8 per Sunday. The five hour period of 8:00 p.m. to 1:00 a.m. was most prevalent, and accounted for 42.4 percent of the reports on which time of injury was stated. The person causing the injury was specified on 1,053 of the reports. On 801, or 76.1 percent, of those reports, the person causing the injury was not related to the victim. For 10.8 percent, the injury was caused by the victim's spouse, and for 13.1 percent, by another family member.

The sources of most reports were the major hospital centers of the State. Norfolk, Richmond, and Portsmouth cities with 351, 175, and 137, respectively, reported the highest number of weapon inflicted injuries treated. Norfolk also had the highest number of residents injured and the highest number of weapon inflicted injury occurrences.

TABLE 1 - VITAL EVENTS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE WITH RATES
(MARRIAGES AND DIVORCES BY PLACE OF OCCURRENCE), VIRGINIA, 1978

Planning District/ City or County	Live Births		All Deaths		Infant Deaths		Induced Abortions	Natural Fetal Deaths	Marriages	Divorces	Estimated Total Population
	Number	Rate	Number	Rate	Number	Rate					
STATE OF VIRGINIA	73,349	14.2	40,649	7.9	989	13.5	28,492	6,131	58,967	22,654	5,148,100
<u>District 1</u>	1,542	15.6	1,014	10.3	27	17.5	72	50	2,442	324	98,600
Lee	376	14.9	310	12.3	4	10.6	10	7	461	96	25,300
Scott	277	11.2	228	9.2	3	10.8	5	2	446	45	24,700
Wise	818	18.5	419	9.5	16	19.6	48	38	1,461	183	44,300
Norton	71	16.5	57	13.3	4	56.3	9	3	74	—	4,300
<u>District 2</u>	2,141	16.0	1,075	8.0	39	18.2	101	163	5,040	412	134,100
Buchanan	644	17.9	246	6.8	21	32.6	20	53	906	115	36,000
Dickenson	291	14.6	143	7.2	3	10.3	17	30	2,815	69	20,000
Russell	422	14.8	251	8.8	9	21.3	10	16	588	79	28,600
Tazewell	784	15.8	435	8.8	6	7.7	54	64	731	149	49,500
<u>District 3</u>	2,128	12.4	1,743	10.2	37	17.4	329	139	1,973	706	171,500
Bland	58	9.1	53	8.3	1	17.2	8	10	70	8	6,400
Carroll	287	12.1	233	9.6	2	7.0	48	30	241	140	23,800
Grayson	165	10.6	174	11.2	2	12.1	22	14	135	79	15,600
Smyth	417	13.2	319	10.1	7	16.8	69	21	315	157	32,400
Washington	557	13.7	408	10.0	8	14.4	64	31	481	154	41,500
Wythe	335	13.8	250	10.3	10	29.9	71	27	289	99	24,300
Bristol	240	11.5	231	11.1	7	29.2	28	366	366	69	20,900
Galax	69	10.5	75	11.4	—	0.0	19	6	76	—	6,600
<u>District 4</u>	1,528	11.5	1,063	8.0	23	15.1	744	101	2,984	565	132,600
Floyd	120	11.2	95	8.9	—	0.0	28	9	57	21	10,700
Giles	222	13.3	198	11.9	7	31.5	58	20	1,930	55	16,700
Montgomery	631	15.1	340	8.1	7	11.1	430	41	509	263	59,800
Pulaski	457	13.8	333	10.1	6	13.1	95	26	326	171	33,000
Radford	98	13.6	97	13.5	3	30.6	133	5	122	55	12,400
<u>District 5</u>	2,945	12.4	2,420	10.2	34	11.5	1,193	344	2,707	1,202	237,500
Alleghany	187	14.5	118	9.1	3	16.0	33	10	280	85	12,900
Botevurt	249	11.6	195	9.1	2	8.0	86	30	157	79	21,500
Craig	45	11.0	36	8.8	—	0.0	5	5	35	20	4,100
Roanoke	693	11.1	454	7.3	7	10.1	355	93	303	348	63,200
Clifton Forge	66	13.8	77	16.0	—	0.0	14	6	127	16	4,800
Covington	125	13.9	113	12.6	1	8.0	24	3	271	—	9,000
Roanoke City	1,337	13.5	1,221	12.4	19	14.2	569	160	1,308	524	98,700
Salem	243	11.2	206	9.5	2	8.2	107	37	226	130	23,300
<u>District 6</u>	2,468	12.2	1,760	8.7	21	8.5	621	143	1,958	793	202,200
Augusta	630	12.6	406	8.1	8	12.7	226	52	356	192	51,900
Bath	74	13.5	60	10.9	1	13.5	18	2	125	23	5,500
Highland	28	10.0	29	10.4	—	0.0	6	1	40	7	2,800
Rockbridge	189	11.3	153	9.2	2	10.6	69	4	116	79	16,700
Rockingham	785	14.9	444	8.4	5	6.4	164	45	432	277	54,500
Buena Vista	77	11.5	58	8.7	—	0.0	24	1	80	38	6,700
Harrisonburg	184	14.9	151	12.2	1	5.4	53	9	241	—	18,900
Lexington	69	14.9	73	15.7	—	0.0	12	—	94	—	7,600
Staunton	232	11.1	244	11.7	4	17.2	24	20	285	105	21,300
Waynesboro	200	12.3	142	8.7	—	0.0	25	9	189	72	16,300
<u>District 7</u>	1,760	13.9	1,324	10.5	32	18.2	296	128	3,540	558	126,300
Clarke	115	12.5	83	9.0	3	26.1	21	8	89	32	9,200
Frederick	527	18.6	238	8.4	8	15.2	93	37	538	134	28,300
Page	247	13.1	203	10.7	5	20.2	35	18	168	71	18,900
Shenandoah	319	11.8	305	11.3	3	9.4	54	23	289	102	27,000
Warren	285	14.4	213	10.8	5	17.5	66	26	239	102	19,800
Winchester	267	11.6	282	12.2	8	30.0	27	16	2,217	117	23,100
<u>District 8</u>	14,646	14.1	4,978	4.8	128	8.7	6,095	1,266	10,524	4,762	1,038,100
Arlington	1,808	12.3	1,014	6.9	14	7.7	741	126	2,457	660	149,400
Fairfax	7,226	13.4	2,197	4.1	59	8.2	3,390	619	2,929	2,686	545,500
Loudoun	786	14.8	317	6.0	9	11.5	277	55	456	206	53,200
Prince William	2,640	20.0	414	3.1	24	9.1	787	239	924	601	134,700
Alexandria	1,408	13.4	744	7.1	16	11.4	687	161	1,971	609	104,700
Fairfax City	257	12.6	108	5.3	2	7.8	110	14	1,062	—	20,400
Falls Church	94	10.6	84	9.4	—	0.0	72	9	330	—	8,900
Manassas	309	24.1	79	6.2	2	6.5	29	29	386	—	12,800
Manassas Park	118	13.9	21	2.5	2	16.9	2	14	9	—	8,500
<u>District 9</u>	1,298	15.1	817	9.5	7	5.4	346	88	797	304	86,000
Culpeper	345	15.8	195	8.9	3	8.7	83	23	207	76	21,900
Fauquier	470	15.2	272	8.8	—	0.0	115	41	292	105	31,300
Madison	143	14.4	99	10.0	1	7.0	36	2	93	36	9,900
Orange	262	15.4	187	11.0	3	11.5	92	16	154	67	17,000
Rappahannock	78	13.2	64	10.8	—	0.0	20	6	51	20	5,900
<u>District 10</u>	1,874	13.9	1,193	8.8	27	14.4	581	123	1,265	568	135,200
Albemarle	695	16.5	319	7.6	4	5.8	292	48	329	200	49,400
Fluvanna	157	15.5	108	10.7	3	19.1	35	9	70	32	10,100
Greene	107	14.7	68	9.3	2	18.7	21	10	57	19	7,300
Louise	228	12.9	181	10.2	2	8.8	67	13	127	65	17,700
Nelson	179	15.3	187	16.0	5	27.9	35	11	111	31	11,700
Charlottesville	506	15.7	330	10.2	11	21.7	131	32	571	221	39,000
<u>District 11</u>	2,524	13.6	1,790	9.7	36	14.3	738	257	1,613	758	185,300
Amherst	357	14.8	256	10.6	5	14.0	115	40	227	91	27,500
Appomattox	157	13.7	126	11.0	2	12.7	37	12	102	36	11,500
Bedford	464	14.9	291	9.4	4	8.6	90	41	206	118	31,100
Campbell	613	13.8	312	7.0	8	13.1	122	66	248	199	44,300
Bedford City	53	8.5	99	16.0	2	37.7	21	8	89	—	6,200
Lynchburg	880	14.4	706	11.5	15	17.0	353	90	741	314	64,700

Due to rounding, the sum of the areas is not equal to the State total.
Included in adjoining county.

(continued)

TABLE 1 - VITAL EVENTS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE WITH RATES
(MARRIAGES AND DIVORCES BY PLACE OF OCCURRENCE), VIRGINIA, 1978 (continued)

Planning District/ City or County	Live Births		All Deaths		Infant Deaths		Induced Abortions	Natural Fetal Deaths	Marriages	Divorces	Estimated Total Population
	Number	Rate	Number	Rate	Number	Rate					
STATE OF VIRGINIA	73,349	14.2	40,649	7.9	989	13.5	28,492	6,131	58,967	22,654	5,148,100
District 12	2,998	13.1	2,094	9.1	45	15.0	694	294	2,165	754	229,600
Franklin	420	13.4	263	8.4	5	11.9	96	46	227	10	32,600
Henry	732	13.0	387	6.9	6	8.2	188	83	453	229	56,100
Patrick	172	10.6	146	9.0	3	17.4	19	14	150	52	16,200
Pittsylvania	860	13.7	548	8.7	19	22.1	173	75	500	178	62,800
Danville	592	13.6	547	12.6	10	16.9	137	59	558	208	44,200
Martinsville	222	12.5	203	11.5	2	9.0	81	17	277	77	17,700
District 13	1,129	13.6	933	11.2	24	21.3	351	137	702	223	83,200
Brunswick	209	13.1	191	11.9	5	23.9	70	25	125	31	16,000
Halifax	402	13.4	304	10.1	5	12.4	151	46	265	109	30,100
Mecklenburg	438	14.6	351	11.7	11	25.1	105	52	241	83	29,900
South Boston	80	11.1	87	12.1	3	37.5	25	14	71	—	7,200
District 14	1,105	13.4	913	11.1	13	11.8	409	96	720	247	82,300
Amelia	105	12.5	83	9.9	—	0.0	48	9	91	25	8,400
Buckingham	138	11.8	106	9.1	—	0.0	31	11	77	27	11,700
Charlotte	193	15.2	150	11.8	—	0.0	46	23	93	35	12,700
Cumberland	89	12.2	70	9.6	5	56.2	22	5	53	23	7,300
Lunenburg	139	11.1	136	10.9	3	21.6	61	8	98	34	12,500
Nottoway	203	14.5	174	12.4	—	0.0	82	19	144	45	14,000
Prince Edward	238	18.6	194	15.2	5	21.0	119	21	184	58	15,700
District 15	8,164	13.3	5,098	8.3	118	14.5	5,502	929	5,489	3,203	611,800
Charles City Co.	92	13.9	50	7.6	1	10.9	37	12	38	21	6,600
Chesterfield	1,777	14.4	581	4.7	22	12.4	850	222	673	633	127,900
Goochland	139	12.9	74	6.9	—	0.0	69	14	106	38	11,400
Hanover	592	11.6	372	7.3	8	13.5	273	50	397	205	52,100
Henrico	2,172	12.5	1,346	7.7	30	13.8	1,485	257	807	1,006	173,900
New Kent	119	15.3	64	8.2	1	8.4	31	12	72	36	7,800
Powhatan	137	12.2	86	7.7	5	36.5	63	12	103	30	12,500
Richmond City	3,136	15.4	2,525	12.4	51	16.3	2,694	350	3,293	1,234	219,600
District 16	1,739	15.7	819	7.4	29	16.7	499	159	904	515	117,800
Caroline	247	14.5	163	9.6	6	24.3	86	17	106	80	17,000
King George	152	15.5	71	7.2	—	0.0	30	11	70	41	9,800
Spotsylvania	561	19.0	200	6.8	6	10.7	117	55	185	131	29,600
Stafford	588	16.7	215	6.1	13	22.1	154	45	275	152	37,100
Fredericksburg	191	12.6	170	11.2	4	20.9	112	31	268	111	17,100
District 17	499	12.4	521	13.0	8	16.0	162	24	282	152	40,200
Lancaster	117	11.5	113	11.1	—	0.0	34	5	70	40	10,200
Northumberland	111	11.7	148	15.6	2	18.0	37	7	37	37	9,500
Richmond	96	14.1	102	15.0	2	20.8	30	2	52	25	6,800
Westmoreland	175	12.8	158	11.5	4	22.9	61	10	83	50	13,700
District 18	689	12.2	638	11.3	11	16.0	269	45	418	214	56,400
Essex	108	13.3	72	8.9	2	18.5	68	8	61	27	8,100
Gloucester	244	13.6	184	10.2	4	16.4	64	13	145	73	18,000
King and Queen	82	13.4	68	11.1	—	0.0	23	6	42	21	6,100
King William	122	14.2	107	12.4	4	32.8	44	14	59	26	8,600
Mathews	60	7.3	107	13.0	—	0.0	31	2	58	37	8,200
Middlesex	73	9.9	100	13.5	1	13.7	39	2	53	30	7,400
District 19	2,260	14.2	1,410	8.9	25	11.1	1,082	224	1,995	714	159,200
Dinkiddie	204	10.8	182	9.7	—	0.0	95	22	132	50	21,400
Greensville	156	15.6	111	11.1	3	19.2	58	13	35	68	10,000
Prince George	332	19.0	113	6.5	6	18.1	135	30	253	105	21,900
Surry	81	14.2	76	13.3	1	12.3	24	4	26	16	5,700
Sussex	149	13.8	105	9.7	3	20.1	68	16	83	35	10,800
Colonial Heights	171	9.9	115	6.6	4	23.4	91	6	286	94	17,300
Emporia	73	14.3	63	12.4	—	0.0	6	10	414	—	5,100
Hopewell	384	16.1	192	8.0	—	0.0	163	29	197	129	23,900
Petersburg	710	16.5	453	10.5	8	11.3	442	94	569	217	43,100
District 20	13,845	16.5	6,134	7.3	235	17.0	5,836	954	7,641	3,828	836,600
Isle of Wight	291	14.3	166	8.1	10	34.4	70	20	157	63	20,400
Southampton	232	12.2	208	11.0	6	25.9	66	20	120	76	19,600
Chesapeake	1,800	16.0	745	6.6	33	18.3	654	111	613	528	112,500
Franklin City	115	16.2	95	13.4	4	34.8	35	9	68	—	7,100
Norfolk	4,958	20.1	2,284	9.2	81	16.3	2,116	368	2,932	1,247	280,200
Portsmouth	1,859	17.4	1,048	9.8	35	18.8	773	96	1,029	489	107,900
Suffolk	736	15.7	518	11.0	14	19.0	262	92	345	151	46,900
Virginia Beach	3,854	16.4	1,070	4.6	52	13.5	1,860	238	2,377	1,274	242,000
District 21	5,379	15.7	2,285	6.7	65	12.1	2,393	377	3,408	1,734	343,300
James City Co.	260	13.3	152	7.8	2	7.7	64	25	93	84	21,000
York	266	8.0	150	4.5	4	15.0	147	21	197	129	33,700
Hampton	2,043	17.1	797	6.7	24	11.7	947	167	1,016	551	124,300
Newport News	2,634	18.8	1,055	7.5	35	13.3	1,040	151	1,671	929	143,700
Poquoson	88	9.5	52	5.6	—	0.0	13	6	38	—	9,300
Williamsburg	88	14.3	79	12.9	—	0.0	182	7	393	41	11,300
District 22	683	14.4	627	13.3	5	7.3	162	89	319	118	47,300
Accomack	436	13.7	435	13.6	2	4.6	110	55	191	87	31,900
Northampton	247	16.0	192	12.5	3	12.1	52	34	128	31	15,400
Unknown	5						17	1	66		
Out-of-state									15		

* Due to rounding, the sum of the areas is not equal to the State total.
** Included in adjoining county.

TABLE 2 - ESTIMATED POPULATION FOR JULY 1, 1978, BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA

Planning District City or County	Total	White	Nonwhite	Planning District City or County	Total	White	Nonwhite
STATE OF VIRGINIA	5,148,100	4,152,430	995,470				
District 1	98,600	94,510	4,090	District 12	229,600	170,980	58,620
Lee	25,300	24,810	490	Franklin	32,600	28,000	4,600
Scott	24,700	24,210	490	Henry	56,100	43,010	13,090
Wise	44,300	41,630	2,670	Patrick	16,200	14,830	1,370
Norton	4,300	3,860	440	Pittsylvania	62,800	40,770	22,030
District 2	134,100	129,170	4,930	Danville	44,200	31,990	12,210
Buchanan	36,000	34,790	1,210	Martinsville	17,700	12,380	5,320
Dickenson	20,000	19,490	510	District 13	83,200	46,560	36,640
Russell	28,600	27,850	750	Brunswick	16,000	6,580	9,420
Tazewell	49,500	47,040	2,460	Halifax	30,100	17,700	12,400
District 3	171,500	166,020	5,480	Mecklenburg	29,900	17,550	12,350
Bland	6,400	5,990	410	South Boston	7,200	4,730	2,470
Carroll	23,800	23,570	230	District 14	82,300	48,630	33,470
Grayson	15,600	14,810	790	Amelia	8,400	4,660	3,740
Smyth	32,400	31,750	650	Buckingham	11,700	6,690	5,010
Washington	41,500	40,810	690	Charlotte	12,700	7,320	5,380
Wythe	24,300	23,340	960	Cumberland	7,300	4,240	3,060
Bristol	20,900	19,440	1,460	Lunenburg	12,500	6,700	5,800
Galax	6,600	6,310	290	Moltoway	14,000	8,890	5,110
District 4	132,600	125,710	6,890	Prince Edward	15,700	10,330	5,370
Floyd	10,700	10,010	690	District 15	611,800	459,740	152,060
Giles	16,700	16,410	290	Charles City Co.	6,600	1,050	5,550
Montgomery	59,800	57,250	2,550	Chesterfield	127,900	111,240	16,660
Pulaski	33,000	30,490	2,510	Goosland	11,400	6,660	4,740
Radford	12,400	11,550	850	Hanover	52,100	43,820	8,280
District 5	237,500	213,200	24,300	Henrico	173,900	152,860	21,040
Alleghany	12,900	12,320	580	New Kent	7,800	4,690	3,110
Botetourt	21,500	19,680	1,820	Powhatan	12,500	8,700	3,800
Craig	4,100	4,080	20	Richmond City	219,600	130,720	88,880
Roanoke	63,200	61,100	2,100	District 16	110,600	88,450	22,150
Clifton Forge	4,800	4,000	800	Caroline	17,000	8,850	8,150
Covington	9,000	7,890	1,110	King George	9,800	7,410	2,390
Roanoke City	98,700	81,730	16,970	Spotsylvania	29,600	24,720	4,880
Salem	23,300	22,400	900	Stafford	37,100	33,460	3,640
District 6	202,200	191,250	10,950	Fredericksburg	17,100	14,010	3,090
Augusta	51,900	49,730	2,170	District 17	40,200	24,500	15,700
Bath	5,500	4,840	660	Lancaster	10,200	6,530	3,670
Highland	2,800	2,780	20	Northumberland	9,500	5,750	3,750
Rockbridge	16,700	15,840	860	Richmond	6,800	4,440	2,360
Rockingham	54,500	53,580	920	Westmoreland	13,700	7,780	5,920
Buena Vista	6,700	6,490	210	District 18	56,400	37,360	19,040
Harrisonburg	18,900	17,530	1,370	Essex	8,100	4,750	3,350
Lexington	7,600	6,400	1,200	Gloucester	18,000	13,990	4,010
Staunton	21,300	19,020	2,280	King and Queen	6,100	3,000	3,100
Waynesboro	16,300	15,040	1,260	King William	8,600	5,000	3,600
District 7	126,300	120,350	5,950	Mathews	8,200	6,060	2,140
Clarke	9,200	7,930	1,270	Middlesex	7,400	4,560	2,840
Frederick	26,300	27,570	730	District 19	159,200	102,600	56,600
Page	18,900	18,240	660	Dinwiddie	21,400	13,260	8,140
Shenandoah	27,000	26,430	570	Greensville	10,000	4,520	5,480
Warren	19,800	18,890	910	Prince George	21,900	16,450	5,450
Winchester	23,100	21,290	1,810	Surry	5,700	1,940	3,760
District 8	1,038,100	942,940	95,160	Sussex	10,800	3,900	6,900
Arlington	149,400	134,620	14,780	Colonial Heights	17,300	17,180	120
Fairfax	545,500	507,800	37,700	Emporia	5,100	2,950	2,150
Loudoun	53,200	46,850	6,350	Hopewell	23,900	19,660	4,240
Prince William	134,700	125,020	9,680	Petersburg	43,100	22,740	20,360
Alexandria	104,700	80,850	23,850	District 20	836,600	592,790	243,810
Fairfax City	20,400	19,630	770	Isle of Wight	20,400	11,430	8,970
Falls Church	8,900	8,040	860	Southampton	19,600	10,530	9,070
Manassas	12,800	11,650	1,150	Chesapeake	112,500	84,010	28,490
Manassas Park	8,500	8,480	20	Franklin City	7,100	3,140	3,960
District 9	86,000	67,310	18,690	Norfolk	280,200	185,160	95,040
Culpeper	21,900	16,710	5,190	Portsmouth	107,900	59,080	48,820
Fauquier	31,300	24,320	6,980	Suffolk	46,900	24,310	22,590
Madison	9,900	8,080	1,820	Virginia Beach	242,000	215,130	26,870
Orange	17,000	13,140	3,860	District 21	343,300	244,330	98,970
Rappahannock	5,900	5,060	840	James City Co.	21,000	14,490	6,510
District 10	135,200	107,630	27,570	York	33,700	26,720	6,980
Albemarle	49,400	42,740	6,660	Hampton	124,300	84,380	39,920
Fluvanna	10,100	6,820	3,280	Newport News	143,700	100,690	43,010
Greene	7,300	6,390	910	Poquoson	9,300	9,250	50
Louisa	17,700	11,490	6,210	Williamsburg	11,300	8,800	2,500
Nelson	11,700	8,210	3,490	District 22	47,300	27,360	19,940
Charlottesville	39,000	31,980	7,020	Accomack	31,900	19,730	12,170
District 11	185,300	150,840	34,460	Northampton	15,400	7,630	7,770
Amherst	27,500	22,400	5,100				
Appomattox	11,500	8,820	2,680				
Bedford	31,100	26,950	4,150				
Campbell	44,300	38,140	6,160				
Bedford City	6,200	5,540	660				
Lynchburg	64,700	48,990	15,710				

Due to rounding, the sum of the areas is not equal to the State total.

TABLE 3 - ESTIMATED HOUSEHOLD POPULATION FOR JULY 1, 1978, BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA

Planning District City or County	Total	White	Nonwhite	Planning District City or County	Total	White	Nonwhite
STATE OF VIRGINIA	4,979,510	4,019,570	959,940				
District 1	98,600	94,510	4,090	District 12	227,470	169,250	58,220
Lee	25,300	24,810	490	Franklin	31,260	26,850	4,410
Scott	24,700	24,210	490	Henry	56,100	43,010	13,090
Wise	44,300	41,630	2,670	Patrick	16,200	14,830	1,370
Norton	4,300	3,860	440	Pittsylvania	62,800	40,770	22,030
District 2	134,100	129,170	4,930	Danville	43,410	31,410	12,000
Buchanan	36,000	34,790	1,210	Martinsville	17,700	12,380	5,320
Dickenson	20,000	19,490	510	District 13	83,200	46,560	36,640
Russell	28,600	27,850	750	Brunswick	16,000	6,580	9,420
Tazewell	49,500	47,040	2,460	Halifax	30,100	17,700	12,400
District 3	169,780	164,330	5,450	Mecklenburg	29,900	17,550	12,350
Bland	6,400	5,990	410	South Boston	7,200	4,730	2,470
Carroll	23,800	23,570	230	District 14	79,390	46,910	32,480
Grayson	15,600	14,810	790	Amelia	8,400	4,660	3,740
Smyth	31,500	30,870	630	Buckingham	11,700	6,690	5,010
Washington	40,680	40,000	680	Charlotte	12,700	7,320	5,380
Wythe	24,300	23,340	960	Cumberland	7,300	4,240	3,060
Bristol	20,900	19,440	1,460	Lunenburg	12,500	6,700	5,800
Galax	6,600	6,310	290	Nottoway	14,000	8,890	5,110
District 4	109,490	103,720	5,770	Prince Edward	12,790	8,410	4,380
Floyd	10,700	10,010	690	District 15	589,510	445,010	144,500
Giles	16,700	16,410	290	Charles City Co.	6,600	1,050	5,550
Montgomery	41,900	40,110	1,790	Chesterfield	123,770	107,650	16,120
Pulaski	33,000	30,490	2,510	Goochland	10,790	6,300	4,490
Radford	7,190	6,700	490	Hanover	51,240	43,100	8,140
District 5	234,850	210,650	24,200	Henrico	173,900	152,860	21,040
Alleghany	12,900	12,320	580	New Kent	7,800	4,690	3,110
Botetourt	21,500	19,680	1,820	Powhatan	11,230	7,820	3,410
Craig	4,100	4,080	20	Richmond City	204,180	121,540	82,640
Roanoke	62,190	60,130	2,060	District 16	106,790	85,170	21,620
Clifton Forge	4,800	4,000	800	Caroline	17,000	8,850	8,150
Covington	9,000	7,890	1,110	King George	9,800	7,410	2,390
Roanoke City	98,700	81,730	16,970	Spotsylvania	29,600	24,720	4,880
Salem	21,660	20,820	840	Stafford	35,180	31,730	3,450
District 6	188,630	178,790	9,840	Fredericksburg	15,210	12,460	2,750
Augusta	50,070	47,980	2,090	District 17	40,200	24,500	15,700
Bath	5,500	4,840	660	Lancaster	10,200	6,530	3,670
Highland	2,800	2,780	20	Northumberland	9,500	5,750	3,750
Rockbridge	16,700	15,840	860	Richmond	6,800	4,440	2,360
Rockingham	52,770	51,880	890	Westmoreland	13,700	7,780	5,920
Buena Vista	6,700	6,490	210	District 18	56,400	37,360	19,040
Harrisonburg	12,330	11,430	900	Essex	8,100	4,750	3,350
Lexington	4,640	3,910	730	Gloucester	18,000	13,990	4,010
Staunton	20,820	18,600	2,220	King and Queen	6,100	3,000	3,100
Waynesboro	16,300	15,040	1,260	King William	8,600	5,000	3,600
District 7	126,300	120,350	5,950	Mathews	8,200	6,060	2,140
Clarke	9,200	7,930	1,270	Middlesex	7,400	4,560	2,840
Frederick	28,300	27,570	730	District 19	152,220	97,700	54,520
Page	18,900	18,240	660	Dinwiddie	18,840	11,680	7,160
Shenandoah	27,000	26,430	570	Greensville	10,000	4,520	5,480
Warren	19,800	18,890	910	Prince George	17,480	13,130	4,350
Winchester	23,100	21,290	1,810	Surry	5,700	1,940	3,760
District 8	1,027,280	932,950	94,330	Sussex	10,800	3,900	6,900
Arlington	147,100	132,550	14,550	Colonial Heights	17,300	17,180	120
Fairfax	539,740	502,440	37,300	Emporia	5,100	2,950	2,150
Loudoun	53,200	46,850	6,350	Hopewell	23,900	19,660	4,240
Prince William	131,940	122,460	9,480	Petersburg	43,100	22,740	20,360
Alexandria	104,700	80,850	23,850	District 20	794,620	563,620	231,000
Fairfax City	20,400	19,630	770	Isle of Wight	20,400	11,430	8,970
Falls Church	8,900	8,040	860	Southampton	18,970	10,190	8,780
Manassas	12,800	11,650	1,150	Chesapeake	112,290	83,860	28,430
Manassas Park	8,500	8,480	20	Franklin City	7,100	3,140	3,960
District 9	85,570	66,980	18,590	Norfolk	246,960	163,200	83,760
Culpeper	21,900	16,710	5,190	Portsmouth	107,010	58,590	48,420
Fauquier	30,870	23,990	6,880	Suffolk	46,900	24,310	22,590
Madison	9,900	8,080	1,820	Virginia Beach	234,990	208,900	26,090
Orange	17,000	13,140	3,860	District 21	328,050	233,320	94,730
Rappahannock	5,900	5,060	840	James City Co.	19,490	13,450	6,040
District 10	121,230	95,840	25,390	York	33,270	26,380	6,890
Albemarle	42,120	36,440	5,680	Hampton	119,690	81,250	38,440
Fluvanna	10,100	6,820	3,280	Newport News	140,160	98,210	41,950
Greene	7,300	6,390	910	Poquoson	9,300	9,250	50
Louisa	17,700	11,490	6,210	Williamsburg	6,140	4,780	1,360
Nelson	11,700	8,210	3,490	District 22	47,300	27,360	19,940
Charlottesville	32,310	26,490	5,820	Accomack	31,900	19,730	12,170
District 11	178,530	145,520	33,010	Northampton	15,400	7,630	7,770
Amherst	24,110	19,640	4,470				
Appomattox	11,500	8,820	2,680				
Bedford	31,100	26,950	4,150				
Campbell	44,300	38,140	6,160				
Bedford City	6,200	5,540	660				
Lynchburg	61,320	46,430	14,890				

TABLE 4
ESTIMATED POPULATION, BIRTHS, DEATHS, MARRIAGES, AND DIVORCES
WITH RATES PER 1,000 POPULATION BY RACE, VIRGINIA, 1959-1978

YEAR	RACE	ESTIMATED POPULATION	RESIDENT BIRTHS		RESIDENT DEATHS		MARRIAGES		DIVORCES (including annulments)	
			Number	Rate	Number	Rate	Number	Rate	Number	Rate
1959	Total	3,918,329	96,620	24.7	33,291	8.5	37,768	9.6	7,111	1.6
	White	3,100,378	71,814	23.2	24,183	7.8	30,934	10.0	5,456	1.8
	Nonwhite	817,951	24,806	30.3	9,108	11.1	6,834	8.4	1,655	2.0
1960	Total	3,983,156	95,716	24.0	34,400	8.6	37,519	9.4	7,348	1.8
	White	3,156,467	71,713	22.7	25,215	8.0	30,782	9.8	5,660	1.8
	Nonwhite	826,689	24,003	29.0	9,185	11.1	6,737	8.1	1,688	2.0
1961	Total	4,036,326	97,087	24.1	34,008	8.4	38,300	9.5	7,559	1.9
	White	3,200,016	73,027	22.8	25,143	7.9	31,613	9.9	6,005	1.9
	Nonwhite	836,310	24,060	28.8	8,865	10.6	6,687	8.0	1,554	1.9
1962	Total	4,126,150	96,565	23.4	35,618	8.6	39,703	9.6	7,674	1.9
	White	3,279,210	73,150	22.3	26,366	8.0	32,793	10.0	6,075	1.9
	Nonwhite	846,940	23,415	27.6	9,252	10.9	6,910	8.2	1,599	1.9
1963	Total	4,237,473	96,854	22.9	36,904	8.7	42,085	9.9	8,101	1.9
	White	3,374,584	73,078	21.7	27,360	8.1	34,935	10.4	6,542	1.9
	Nonwhite	862,889	23,776	27.6	9,544	11.1	7,150	8.3	1,559	1.8
1964	Total	4,307,591	96,966	22.5	36,525	8.5	43,504	10.1	8,580	2.0
	White	3,435,622	73,051	21.3	27,133	7.9	36,319	10.6	7,033	2.0
	Nonwhite	871,969	23,915	27.4	9,392	10.8	7,185	8.2	1,547	1.8
1965	Total	4,425,637	89,139	20.1	37,043	8.4	45,976	10.4	8,889	2.0
	White	3,540,939	66,788	18.9	27,765	7.8	38,794	11.0	7,307	2.1
	Nonwhite	884,698	22,351	25.3	9,278	10.5	7,182	8.1	1,582	1.8
1966	Total	4,525,976	84,538	18.7	37,358	8.3	46,819	10.3	9,512	2.1
	White	3,636,309	63,747	17.5	28,098	7.7	39,487	10.9	7,841	2.2
	Nonwhite	889,667	20,791	23.4	9,260	10.4	7,332	8.2	1,671	1.9
1967	Total	4,602,091	82,775	18.0	37,191	8.1	48,653	10.6	9,682	2.1
	White	3,706,154	62,769	16.9	27,939	7.5	40,881	11.0	7,975	2.2
	Nonwhite	895,937	20,006	22.3	9,252	10.3	7,772	8.7	1,707	1.9
1968	Total	4,692,675	82,138	17.5	39,687	8.5	52,173	11.1	10,571	2.3
	White	3,780,317	63,296	16.7	29,852	7.9	44,008	11.6	8,715	2.3
	Nonwhite	912,358	18,842	20.7	9,835	10.8	8,165	8.9	1,856	2.0
1969	Total	4,781,175	83,420	17.4	39,048	8.2	52,575	11.0	11,417	2.4
	White	3,858,719	64,833	16.8	29,368	7.6	44,367	11.5	9,460	2.5
	Nonwhite	922,456	18,587	20.1	9,680	10.5	8,208	8.9	1,957	2.1
1970	Total	4,665,532	86,081	18.5	39,009	8.4	51,964	11.1	11,879	2.5
	White	3,772,853	66,657	17.7	29,618	7.9	44,066	11.7	9,880	2.6
	Nonwhite	892,679	19,424	21.8	9,391	10.5	7,898	8.8	1,999	2.2
1971	Total	4,714,227	82,713	17.5	39,464	8.4	52,158	11.1	13,261	2.8
	White	3,825,758	63,592	16.6	30,282	7.9	44,202	11.6	11,083	2.9
	Nonwhite	888,469	19,121	21.5	9,182	10.3	7,956	9.0	2,178	2.5
1972	Total	4,764,000	75,068	15.8	40,886	8.6	55,863	11.7	14,155	3.0
	White	3,871,370	57,440	14.8	31,392	8.1	47,232	12.2	11,741	3.0
	Nonwhite	892,630	17,628	19.7	9,494	10.6	8,631	9.7	2,414	2.7
1973	Total	4,811,000	71,665	14.9	41,103	8.5	58,431	12.1	16,078	3.3
	White	3,921,430	54,877	14.0	31,536	8.0	49,388	12.6	13,202	3.4
	Nonwhite	889,570	16,788	18.9	9,567	10.8	9,043	10.2	2,876	3.2
1974	Total	4,908,000	71,066	14.5	40,561	8.3	56,617	11.5	16,704	3.4
	White	4,015,380	54,248	13.5	31,298	7.8	47,882	11.9	13,871	3.5
	Nonwhite	892,620	16,818	18.8	9,263	10.4	8,735	9.8	2,833	3.2
1975	Total	4,966,200	70,032	14.1	39,543	8.0	54,688	11.0	19,361	3.9
	White	4,068,490	53,207	13.1	30,522	7.5	46,907	11.5	16,332	4.0
	Nonwhite	897,710	16,825	18.7	9,021	10.0	7,781	8.7	3,029	3.4
1976	Total	5,032,300*	69,972	13.9	40,056	8.0	56,469	11.2	21,381	4.2
	White	4,095,340	53,012	12.9	30,946	7.6	48,478	11.8	18,077	4.4
	Nonwhite	936,960	16,960	18.1	9,110	9.7	7,991	8.5	3,304	3.5
1977	Total	5,134,500*	74,246	14.5	39,744	7.7	57,778	11.3	21,459	4.2
	White	4,184,080	55,662	13.3	30,642	7.3	49,175	11.8	18,181	4.3
	Nonwhite	950,420	18,584	19.6	9,102	9.6	8,603	9.1	3,278	3.4
1978	Total	5,148,100*	73,349	14.2	40,649	7.9	58,967	11.5	22,654	4.4
	White	4,152,430	54,921	13.2	31,497	7.6	50,187	12.1	19,182	4.6
	Nonwhite	995,670	18,428	18.5	9,152	9.2	8,780	8.8	3,472	3.5

*Due to rounding, the sum of the white and nonwhite is not equal to the total.

TABLE 5
RESIDENT FETAL DEATHS, ILLEGITIMATE BIRTHS, AND DEATHS UNDER ONE YEAR AND UNDER 28 DAYS
WITH RATE OR RATIO PER 1,000 LIVE BIRTHS BY RACE, VIRGINIA, 1959-1978

YEAR	RACE	FETAL DEATHS**		ILLEGITIMATE BIRTHS (Exclusive of Fetal Deaths)		Infant Deaths			
		Number	Ratio	Number	Ratio	Total Under One Year		Under 28 Days	
						Number	Rate	Number	Rate
1959	Total	1,790	18.5	7,777	80.5	3,000	31.0	2,096	21.7
	White	1,069	14.9	1,869	26.0	1,791	24.9	1,326	18.5
	Nonwhite	721	29.1	5,908	238.2	1,209	48.7	770	31.0
1960	Total	1,735	18.1	7,560	79.0	2,847	29.7	2,001	20.9
	White	1,087	15.2	1,809	25.2	1,767	24.6	1,332	18.6
	Nonwhite	648	27.0	5,751	239.6	1,080	45.0	669	27.9
1961	Total	1,829	18.8	7,888	81.2	2,704	27.9	1,937	20.0
	White	1,135	15.5	1,976	27.1	1,669	22.9	1,280	17.5
	Nonwhite	694	28.8	5,912	245.7	1,035	43.0	657	27.3
1962	Total	1,836	19.0	8,010	82.9	2,824	29.2	2,029	21.0
	White	1,146	15.7	2,088	28.5	1,736	23.7	1,332	18.2
	Nonwhite	690	29.5	5,922	252.9	1,088	46.5	697	29.8
1963	Total	1,971	20.4	8,260	85.3	2,831	29.2	2,026	20.9
	White	1,244	17.0	2,324	31.8	1,758	24.1	1,333	18.2
	Nonwhite	727	30.6	5,936	249.7	1,073	45.1	693	29.1
1964	Total	1,791	18.5	8,638	89.1	2,691	27.8	1,948	20.1
	White	1,097	15.0	2,438	33.4	1,644	22.5	1,272	17.4
	Nonwhite	694	29.0	6,200	259.3	1,047	43.8	676	28.3
1965	Total	1,658	18.6	8,900	99.8	2,364	26.5	1,675	18.8
	White	1,010	15.1	2,599	38.9	1,475	22.1	1,115	16.7
	Nonwhite	648	29.0	6,301	281.9	889	39.8	560	25.1
1966	Total	1,519	18.0	9,176	108.5	2,129	25.2	1,560	18.5
	White	916	14.4	2,847	44.7	1,352	21.2	1,058	16.6
	Nonwhite	603	29.0	6,329	304.4	777	37.4	502	24.1
1967	Total	1,390	16.8	9,178	110.9	2,007	24.2	1,460	17.6
	White	873	13.9	2,907	46.3	1,254	20.0	974	15.5
	Nonwhite	517	25.8	6,271	313.5	753	37.6	486	24.3
1968	Total	1,402	17.1	9,397	114.4	1,885	22.9	1,405	17.1
	White	858	13.6	3,139	49.6	1,189	18.8	943	14.9
	Nonwhite	544	28.9	6,258	332.1	696	39.6	462	24.5
1969	Total	1,447	17.3	9,583	114.9	1,849	22.2	1,399	16.8
	White	955	14.7	3,323	51.3	1,231	19.0	963	14.9
	Nonwhite	492	26.5	6,260	336.8	618	33.2	436	23.5
1970	Total	1,622	18.8	10,263	119.2	1,790	20.8	1,400	16.3
	White	1,063	15.9	3,354	50.3	1,144	17.2	927	13.9
	Nonwhite	559	28.8	6,909	355.7	646	33.3	473	24.4
1971	Total	1,546	18.7	10,071	121.8	1,697	20.5	1,280	15.5
	White	998	15.7	3,004	47.2	1,126	17.7	861	13.5
	Nonwhite	548	28.7	7,067	369.6	571	29.9	419	21.9
1972	Total	1,629	21.7	9,806	130.6	1,524	20.3	1,161	15.5
	White	978	17.0	2,699	47.0	986	17.2	768	13.4
	Nonwhite	651	36.9	7,107	403.2	538	30.5	393	22.3
1973	Total	1,585	22.1	9,514	132.8	1,313	18.3	1,000	14.0
	White	902	16.4	2,707	49.3	872	15.9	686	12.5
	Nonwhite	683	40.7	6,807	405.5	441	26.3	314	18.7
1974	Total	1,547	21.8	9,738	137.0	1,236	17.4	947	13.3
	White	890	16.4	2,782	51.3	797	14.7	612	11.3
	Nonwhite	657	39.1	6,956	413.6	439	26.1	335	19.9
1975	Total	980*	14.0	10,220	145.9	1,233	17.6	931	13.3
	White	607	11.4	3,040	57.1	802	15.1	600	11.3
	Nonwhite	373	22.2	7,180	426.7	431	25.6	331	19.7
1976	Total	958*	13.7*	10,703	153.0	1,143	16.3	838	12.0
	White	604	11.4	3,334	62.9	699	13.2	518	9.8
	Nonwhite	354	20.9	7,369	434.5	444	26.2	320	18.9
1977	Total	942*	12.7*	12,125	163.3	1,167	15.7	834	11.2
	White	554	10.0	3,742	67.2	724	13.0	511	9.2
	Nonwhite	388	20.9	8,383	451.1	443	23.8	323	17.4
1978	Total	888*	12.1*	12,546	165.3	989	13.5	692	9.4
	White	560	10.2	3,953	72.0	611	11.1	422	7.7
	Nonwhite	328	17.8	8,593	466.3	378	20.5	270	14.7

**Fetal deaths are those of 20 weeks or more gestation.

*Natural Fetal Deaths only.

TABLE 6
PERCENT DISTRIBUTION OF LIVE BIRTHS AND FETAL DEATHS ACCORDING TO HOSPITAL DELIVERIES AND
ATTENDANT AT BIRTH BY RACE, VIRGINIA, 1959-1978

Year	Race	LIVE BIRTHS			FETAL DEATHS*		
		Percent Delivered in Hospital	Percent Delivered by		Percent Delivered in Hospital	Percent Delivered by	
			Physician	Midwife and Other		Physician	Midwife and Other
1959	Total	91.8	94.1	5.9	86.9	93.5	6.5
	White	98.1	99.3	0.7	95.4	99.1	0.9
	Nonwhite	73.7	79.1	20.9	74.2	85.2	14.8
1960	Total	92.5	94.4	5.6	87.7	94.2	5.8
	White	98.3	99.3	0.7	94.7	98.1	1.8
	Nonwhite	75.3	79.7	20.3	75.9	87.6	12.3
1961	Total	93.4	95.0	5.0	89.7	96.2	3.8
	White	98.6	99.4	0.6	96.1	98.5	1.5
	Nonwhite	77.4	81.4	18.6	79.2	92.4	7.6
1962	Total	94.3	95.7	4.3	89.3	94.2	5.8
	White	98.7	99.4	0.6	95.4	97.9	2.1
	Nonwhite	80.3	83.9	16.1	79.3	88.1	11.9
1963	Total	94.9	96.1	3.9	89.7	95.3	4.7
	White	99.0	99.5	0.5	95.7	98.6	1.4
	Nonwhite	82.5	85.7	14.3	79.5	89.8	10.2
1964	Total	95.6	96.5	3.5	90.4	96.0	4.0
	White	99.2	99.6	0.4	95.4	98.4	1.6
	Nonwhite	84.5	87.0	13.0	82.4	92.2	7.8
1965	Total	96.1	97.0	3.0	91.7	96.1	3.9
	White	99.3	99.7	0.3	96.2	97.9	2.1
	Nonwhite	86.6	88.8	11.2	84.7	93.2	6.8
1966	Total	96.7	97.4	2.6	92.9	96.5	3.5
	White	99.3	99.7	0.3	97.7	99.0	1.0
	Nonwhite	88.7	90.4	9.6	85.6	92.7	7.3
1967	Total	97.3	97.9	2.1	92.9	97.0	3.0
	White	99.4	99.7	0.3	96.6	98.5	1.5
	Nonwhite	90.5	92.2	7.8	86.7	94.4	5.6
1968	Total	97.8	98.4	1.6	92.4	98.1	1.9
	White	99.5	99.8	0.2	96.6	99.1	0.9
	Nonwhite	92.3	93.6	6.4	88.4	96.5	3.5
1969	Total	98.2	98.7	1.3	94.4	99.1	0.9
	White	99.6	99.8	0.2	96.9	99.1	0.9
	Nonwhite	93.6	94.6	5.4	89.6	99.2	0.8
1970	Total	98.7	99.1	0.9	95.7	99.3	0.7
	White	99.6	99.9	0.1	96.5	99.3	0.7
	Nonwhite	95.5	96.3	3.7	94.3	99.3	0.7
1971	Total	98.8	99.2	0.8	97.3	99.4	0.6
	White	99.6	99.8	0.2	98.0	99.6	0.4
	Nonwhite	96.2	96.9	3.1	96.2	99.1	0.9
1972	Total	99.0	99.3	0.7	97.9	99.6	0.4
	White	99.7	99.8	0.2	98.2	99.8	0.2
	Nonwhite	96.9	97.4	2.6	97.5	99.4	0.6
1973	Total	99.3	99.5	0.5	97.7	99.6	0.4
	White	99.7	99.9	0.1	98.3	99.8	0.2
	Nonwhite	97.9	98.3	1.7	96.9	99.3	0.7
1974	Total	99.4	99.6	0.4	98.4	99.9	0.1
	White	99.6	99.9	0.1	98.8	100.0	0.0
	Nonwhite	98.5	98.9	1.1	97.9	99.7	0.3
1975	Total	99.5	99.7	0.3	98.9	99.6	0.4
	White	99.6	99.8	0.2	98.6	99.4	0.6
	Nonwhite	98.9	99.2	0.8	99.3	100.0	0.0
1976	Total	99.4	99.7	0.3	98.8	99.7	0.3
	White	99.6	99.7	0.3	98.8	99.6	0.4
	Nonwhite	99.0	99.4	0.6	98.7	99.8	0.2
1977	Total	99.3	99.6	0.4	98.9	99.9	0.1
	White	99.4	99.6	0.4	99.0	99.8	0.2
	Nonwhite	99.0	99.4	0.6	98.8	100.0	0.0
1978	Total	99.3	99.6	0.4	98.5**	99.8**	0.2**
	White	99.3	99.6	0.4	99.5	99.6	0.4
	Nonwhite	99.0	99.6	0.4	97.0	100.0	0.0

*Fetal deaths are those of 20 weeks or more gestation.

**Natural Fetal Deaths only.

TABLE 7 - RESIDENT LIVE BIRTHS BY LIVE BIRTH ORDER, BY AGE AND RACE OF MOTHER, VIRGINIA, 1978

Age of Mother	Total Births	LIVE BIRTH ORDER										Unk.
		1	2	3	4	5	6	7	8	9	10+	
TOTAL	73,349	33,243	24,074	10,207	3,519	1,284	498	243	111	62	79	29
Under 15 years	275	272	2									1
15-19 years	11,953	9,694	1,935	280	35	4						5
20-24 years	23,673	12,059	8,437	2,459	587	96	22	4				9
25-29 years	22,398	8,231	8,740	3,764	1,152	360	105	27	9	3	1	6
30-34 years	11,632	2,560	4,221	2,914	1,120	471	189	85	34	20	12	6
35-39 years	2,917	376	671	717	547	276	141	92	52	15	30	
40-44 years	461	44	64	70	74	74	37	30	14	22	32	
45 years & over	33	5	1	3	4	3	4	5	2	2	4	
Unknown	7	2	3									2
WHITE - Total	54,921	25,143	18,531	7,516	2,372	815	275	147	41	28	34	19
Under 15 years	93	93										
15-19 years	7,376	6,142	1,118	107	6	2						1
20-24 years	17,251	9,330	6,089	1,502	274	39	8	1				8
25-29 years	17,860	6,980	7,107	2,795	728	188	44	12	1	1		4
30-34 years	9,700	2,248	3,611	2,471	866	322	104	51	10	5	8	4
35-39 years	2,283	305	557	580	438	208	92	60	22	10	11	
40-44 years	328	38	47	58	56	53	25	19	8	10	14	
45 years & over	25	5	1	3	4	3	2	4		2	1	
Unknown	5	2	1									2
NONWHITE - Total	18,428	8,100	5,543	2,691	1,147	469	223	96	70	34	45	10
Under 15 years	182	179	2									1
15-19 years	4,577	3,552	817	173	29	2						4
20-24 years	6,422	2,729	2,348	957	313	57	14	3				1
25-29 years	4,538	1,251	1,633	969	424	172	61	15	8	2	1	2
30-34 years	1,932	312	610	443	254	149	85	34	24	15	4	2
35-39 years	634	71	114	137	109	68	49	32	30	5	19	
40-44 years	133	6	17	12	18	21	12	11	6	12	18	
45 years & over	8						2	1	2		3	
Unknown	2		2									

TABLE 8 - PERCENT DISTRIBUTION OF RESIDENT LIVE BIRTHS BY LIVE BIRTH ORDER BY AGE AND RACE OF MOTHER, VIRGINIA, 1978

Age of Mother	Total Births	LIVE BIRTH ORDER										Unk.
		1	2	3	4	5	6	7	8	9	10+	
TOTAL	73,349	45.3	32.8	13.9	4.8	1.8	0.7	0.3	0.2	0.1	0.1	*
Under 15 years	275	98.9	0.7									0.4
15-19 years	11,953	81.1	16.2	2.4	0.3	*						*
20-24 years	23,673	50.9	35.7	10.4	2.5	0.4	0.1	*				*
25-29 years	22,398	36.8	39.0	16.8	5.2	1.6	0.5	0.1	*	*	*	*
30-34 years	11,632	22.0	36.3	25.1	9.6	4.0	1.6	0.7	0.3	0.2	0.1	0.1
35-39 years	2,917	12.9	23.0	24.6	18.7	9.5	4.8	3.2	1.8	0.5	1.0	
40-44 years	461	9.5	13.9	15.2	16.1	16.1	8.0	6.5	3.0	4.8	6.9	
45 years & over	33	15.2	3.0	9.1	12.1	9.1	12.1	15.1	6.1	6.1	12.1	
Unknown	7											
WHITE - Total	54,921	45.8	33.8	13.7	4.3	1.5	0.5	0.1	0.1	0.1	0.1	*
Under 15 years	93	100.0										
15-19 years	7,376	83.3	15.2	1.4	0.1	*						*
20-24 years	17,251	54.1	35.3	8.7	1.6	0.2	0.1	*				*
25-29 years	17,860	39.1	39.8	15.6	4.1	1.1	0.2	0.1	*	*		*
30-34 years	9,700	23.2	37.2	25.5	8.9	3.3	1.1	0.5	0.1	0.1	0.1	*
35-39 years	2,283	13.4	24.4	25.4	19.2	9.1	4.0	2.6	1.0	0.4	0.5	
40-44 years	328	11.6	14.3	17.7	17.1	16.2	7.6	5.8	2.4	3.0	4.3	
45 years & over	25	20.0	4.0	12.0	16.0	12.0	8.0	16.0		8.0	4.0	
Unknown	5											
NONWHITE - Total	18,428	44.0	30.1	14.6	6.2	2.5	1.2	0.5	0.4	0.2	0.2	0.1
Under 15	182	98.4	1.1									0.5
15-19 years	4,577	77.6	17.9	3.8	0.6	*						0.1
20-24 years	6,422	42.5	36.6	14.9	4.9	0.9	0.2	*				*
25-29 years	4,538	27.6	36.0	21.4	9.3	3.8	1.4	0.3	0.2	*	*	*
30-34 years	1,932	16.2	31.6	22.9	13.1	7.7	4.4	1.8	1.2	0.8	0.2	0.1
35-39 years	634	11.2	18.0	21.6	17.2	10.7	7.7	5.1	4.7	0.8	3.0	
40-44 years	133	4.5	12.8	9.0	13.6	15.8	9.0	8.3	4.5	9.0	13.5	
45 years & over	8						25.0	12.5	25.0		37.5	
Unknown	2											

*Less than 0.05

TABLE 9 - LIVE BIRTHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE
PER 1,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1978

NOTE: Rates for cities and counties have been calculated on estimated July 1 household populations
but rates for the entire State and planning districts, on the total populations.

Planning District/ City or County	PLACE OF OCCURRENCE			PLACE OF RESIDENCE					
	Total	White	Nonwhite	Number			Rate		
				Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	70,648	52,550	18,098	73,349	54,921	18,428	14.2	13.2	18.5
District 1	1,247	1,223	24	1,542	1,522	20	15.6	16.1	4.9
Lee	7	7		376	376		14.9	15.2	0.0
Scott				277	276	1	11.2	11.4	2.0
Wise	897	876	21	818	802	16	18.5	19.3	6.0
Norton	343	340	3	71	68	3	16.5	17.6	6.8
District 2	1,504	1,492	12	2,141	2,105	36	16.0	16.3	2.3
Buchanan	284	283	1	644	642	2	17.9	18.5	1.7
Dickenson	1	1		291	290	1	14.6	14.9	2.0
Russell	37	36	1	422	420	2	14.8	15.1	2.7
Tazewell	1,182	1,172	10	784	753	31	15.8	16.0	12.6
District 3	1,789	1,752	37	2,128	2,065	63	12.4	12.4	11.5
Bland	1	1		58	57	1	9.1	9.5	2.4
Carroll	1	1		287	286	1	12.1	12.1	4.3
Grayson	2	2		165	156	9	10.6	10.5	11.4
Smyth	377	368	9	417	407	10	13.2	13.2	15.9
Washington	673	667	6	557	553	4	13.7	13.8	5.9
Wythe	319	309	10	335	323	12	13.8	13.8	12.5
Bristol	1	1		240	216	24	11.5	11.1	16.4
Galax	415	403	12	69	67	2	10.5	10.6	6.9
District 4	1,476	1,416	60	1,528	1,460	68	11.5	11.6	9.9
Floyd	5	5		120	115	5	11.2	11.5	7.2
Giles	99	96	3	222	216	6	13.3	13.2	20.7
Montgomery	517	499	18	631	609	22	15.1	15.2	12.3
Pulaski	92	85	7	457	432	25	13.8	14.2	10.0
Radford	763	731	32	98	88	10	13.6	13.1	20.4
District 5	3,659	3,207	452	2,945	2,528	417	12.4	11.9	17.2
Alleghany	146	134	12	187	180	7	14.5	14.6	12.1
Botetourt	1	1		249	244	5	11.6	12.4	2.7
Craig				45	45		11.0	11.0	0.0
Roanoke	5	5		693	676	17	11.1	11.2	8.3
Clifton Forge	318	301	17	66	58	8	13.8	14.5	10.0
Covington				125	112	13	13.9	14.2	11.7
Roanoke City	2,398	2,010	388	1,337	986	351	13.5	12.1	20.7
Salem	791	756	35	243	227	16	11.2	10.9	19.0
District 6	2,773	2,652	121	2,468	2,353	115	12.2	12.3	10.5
Augusta	4	4		630	609	21	12.6	12.7	10.0
Bath	43	39	4	74	69	5	13.5	14.3	7.6
Highland				28	28		10.0	10.1	0.0
Rockbridge	1	1		189	185	4	11.3	11.7	4.7
Rockingham	3	3		785	780	5	14.9	15.0	5.6
Buena Vista				77	73	4	11.5	11.2	19.0
Harrisonburg	1,313	1,292	21	184	174	10	14.9	15.2	11.1
Lexington	318	295	23	69	56	13	14.9	14.3	17.8
Staunton	429	399	30	232	202	30	11.1	10.9	13.5
Waynesboro	662	619	43	200	177	23	12.3	11.8	18.3
District 7	2,027	1,915	112	1,760	1,665	95	13.9	13.8	16.0
Clarke				115	89	26	12.5	11.2	20.5
Frederick	4	4		527	513	14	18.6	18.6	19.2
Page	19	19		247	242	5	13.1	13.3	7.6
Shenandoah	245	243	2	319	315	4	11.8	11.9	7.0
Warren	243	222	21	285	273	12	14.4	14.5	13.2
Winchester	1,516	1,427	89	267	233	34	11.6	10.9	18.8
District 8	12,562	10,677	1,885	14,646	12,421	2,225	14.1	13.2	23.4
Arlington	1,092	767	325	1,808	1,408	400	12.3	10.6	27.5
Fairfax	6,298	5,533	765	7,226	6,316	910	13.4	12.6	24.4
Loudoun	620	556	64	786	719	67	14.8	15.3	10.6
Prince William	878	769	109	2,640	2,365	275	20.0	19.3	29.0
Alexandria	2,601	2,077	524	1,408	903	505	13.4	11.2	21.2
Fairfax City	1	1		257	238	19	12.6	12.1	24.7
Falls Church	1		1	94	83	11	10.6	10.3	12.8
Manassas	1,070	973	97	309	279	30	24.1	23.9	26.1
Manassas Park	1	1		118	110	8	13.9	13.0	400.0
District 9	642	529	113	1,298	1,027	271	15.1	15.3	14.5
Culpeper	323	284	39	345	266	79	15.8	15.9	15.2
Fauquier	317	243	74	470	387	83	15.2	16.1	12.1
Madison				143	112	31	14.4	13.9	17.0
Orange				262	195	67	15.4	14.8	17.4
Rappahannock	2	2		78	67	11	13.2	13.2	13.1
District 10	2,365	1,685	680	1,874	1,391	483	13.9	12.9	17.5
Albemarle	1,298	720	578	695	595	100	16.5	16.3	17.6
Fluvanna				157	94	63	15.5	13.8	19.2
Greene	2	2		107	98	9	14.7	15.3	9.9
Louisa	1	1		228	141	87	12.9	12.3	14.0
Nelson	6	6		179	126	53	15.3	15.3	15.2
Charlottesville	1,058	956	102	508	337	171	15.7	12.7	29.4
District 11	2,657	1,936	721	2,524	1,900	624	13.6	12.6	18.1
Amherst				357	285	72	14.8	14.5	16.1
Appomattox				157	118	39	13.7	13.4	14.6
Bedford	5	4	1	464	401	63	14.9	14.9	15.2
Campbell	3	1	2	613	498	115	13.8	13.1	18.7
Bedford City	202	139	63	53	41	12	8.5	7.4	18.2
Lynchburg	2,447	1,792	655	880	557	323	14.4	12.0	21.7

(continued)

TABLE 9 - LIVE BIRTHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE
PER 1,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1978 (continued)

NOTE: Rates for cities and counties have been calculated on estimated July 1 household populations but rates for the entire State and planning districts, on the total populations.

Planning District/ City or County	PLACE OF OCCURRENCE			PLACE OF RESIDENCE					
	Total	White	Nonwhite	Number			Rate		
				Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	70,648	52,550	18,098	73,349	54,921	18,428	14.2	13.2	18.5
District 12	2,619	1,783	836	2,998	2,057	941	13.1	12.0	16.1
Franklin	155	104	51	420	353	67	13.4	13.1	15.2
Henry	2	2		732	530	202	13.0	12.3	15.4
Patrick	131	118	13	172	154	18	10.6	10.4	13.1
Pittsylvania	6	6		860	520	340	13.7	12.8	15.4
Danville	1,372	858	514	592	357	235	13.6	11.4	19.6
Martinsville	953	695	258	222	143	79	12.5	11.6	14.8
District 13	1,071	542	529	1,129	551	578	13.6	11.8	15.8
Brunswick	13	2	11	209	81	128	13.1	12.3	13.6
Halifax	2		2	402	209	193	13.4	11.8	15.6
Mecklenburg	243	92	151	438	221	217	14.6	12.6	17.6
South Boston	813	448	365	80	40	40	11.1	8.5	16.2
District 14	414	191	223	1,105	559	546	13.4	11.4	16.3
Amelia	1		1	105	65	40	12.5	13.9	10.7
Buckingham	1	1		138	74	64	11.8	11.1	12.8
Charlotte	14		14	193	100	93	15.2	13.7	17.3
Cumberland	6	4	2	89	45	44	12.2	10.6	14.4
Lunenburg	2	1	1	139	60	79	11.1	9.0	13.6
Nottoway	3	2	1	203	108	95	14.5	12.1	18.6
Prince Edward	387	183	204	238	107	131	18.6	12.7	29.9
District 15	9,949	6,154	3,795	8,164	5,263	2,901	13.3	11.4	19.1
Charles City Co.				92	17	75	13.9	16.2	13.5
Chesterfield	2	2		1,777	1,602	175	14.4	14.9	10.9
Goochland	1	1		139	86	53	12.9	13.7	11.8
Hanover	2		2	592	488	104	11.6	11.3	12.8
Henrico	3,631	3,223	408	2,172	1,686	486	12.5	11.0	23.1
New Kent				119	81	38	15.3	17.3	12.2
Powhatan	1	1		137	123	14	12.2	15.7	4.1
Richmond City	6,312	2,927	3,385	3,136	1,180	1,956	15.4	9.7	23.7
District 16	1,429	1,135	294	1,739	1,396	343	15.7	15.8	15.5
Caroline	3	1	2	247	151	96	14.5	17.1	11.8
King George				152	109	43	15.5	14.7	18.0
Spotsylvania	2	1	1	561	461	100	19.0	18.6	20.5
Stafford	1	1		588	547	41	16.7	17.2	11.9
Fredericksburg	1,423	1,132	291	191	128	63	12.6	10.3	22.9
District 17	189	138	51	499	285	214	12.4	11.6	13.6
Lancaster	183	136	47	117	70	47	11.5	10.7	12.8
Northumberland	2	1	1	111	66	45	11.7	11.5	12.0
Richmond	1	1		96	62	34	14.1	14.0	14.4
Westmoreland	3		3	175	87	88	12.8	11.2	14.9
District 18	25	12	13	689	468	221	12.2	12.5	11.6
Essex	17	5	12	108	59	49	13.3	12.4	14.6
Gloucester	5	4	1	244	207	37	13.6	14.8	9.2
King and Queen				82	33	49	13.4	11.0	15.8
King William	2	2		122	77	45	14.2	15.4	12.5
Mathews				60	46	14	7.3	7.6	6.5
Middlesex	1	1		73	46	27	9.9	10.1	9.5
District 19	1,834	1,057	777	2,260	1,188	1,072	14.2	11.6	18.9
Dinwiddie	4	1	3	204	117	87	10.8	10.0	12.2
Greensville				156	47	109	15.6	10.4	19.9
Prince George				332	225	107	19.0	17.1	24.6
Surry	1		1	81	25	56	14.2	12.9	14.9
Sussex	1		1	149	46	103	13.8	11.8	14.9
Colonial Heights				171	164	7	9.9	9.5	58.3
Emporia	360	79	281	73	27	46	14.3	9.2	21.4
Hopewell	454	358	96	384	280	104	16.1	14.2	24.5
Petersburg	1,014	619	395	710	257	453	16.5	11.3	22.2
District 20	13,908	8,943	4,965	13,845	8,911	4,934	16.5	15.0	20.2
Isle of Wight	1	1		291	160	131	14.3	14.0	14.6
Southampton				232	121	111	12.2	11.9	12.6
Chesapeake	17	14	3	1,800	1,178	622	16.0	14.0	21.9
Franklin City	396	221	175	115	48	67	16.2	15.3	16.9
Norfolk	6,062	3,541	2,521	4,958	2,908	2,050	20.1	17.8	24.5
Portsmouth	5,528	3,875	1,653	1,859	899	960	17.4	15.3	19.8
Suffolk	701	223	478	736	310	426	15.7	12.8	18.9
Virginia Beach	1,203	1,068	135	3,854	3,287	567	16.4	15.7	21.7
District 21	5,919	4,887	2,032	5,379	3,497	1,882	15.7	14.3	19.0
James City Co.	3	1	2	260	177	83	13.3	13.2	13.7
York				29	214	52	8.0	8.1	7.5
Hampton	1,343	686	657	2,443	1,299	1,144	17.1	16.0	19.4
Newport News	4,116	2,843	1,273	2,634	1,668	966	18.8	17.0	23.0
Poquoson				88	84	4	9.5	9.1	80.0
Williamsburg	457	357	100	88	55	33	14.3	11.5	24.3
District 22	590	224	366	623	305	318	14.4	11.1	19.0
Accomack	34	4	30	436	206	230	13.7	10.4	18.9
Northampton	556	220	336	247	99	148	16.0	13.0	19.0
Unknown				5	4	1			

TABLE 10 - LIVE BIRTHS BY RACE AND PLACE OF DELIVERY BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978

Planning District/ City or County	ALL LIVE BIRTHS			PLACE OF DELIVERY								
				TOTAL			WHITE			NONWHITE		
	Total	White	Nonwhite	Hosp. Birth	Non-Hosp. Birth Physi- cian	Midwife and Other	Hosp. Birth	Non-Hosp. Birth Physi- cian	Midwife and Other	Hosp. Birth	Non-Hosp. Birth Physi- cian	Midwife and Other
STATE OF VIRGINIA	73,349	54,921	18,428	72,804	265	280	54,553	162	206	18,251	103	74
District 1	1,542	1,522	20	1,535		7	1,515		7	20		
Lee	376	376		369		7	369		7			
Scott	277	276	1	277			276			1		
Wise	818	802	16	818			802			16		
Norton	71	68	3	71			68			3		
District 2	2,141	2,105	36	2,133	6	2	2,097	6	2	36		
Buchanan	644	642	2	642	1	1	640	1	1	2		
Dickenson	291	290	1	290	1		289	1		1		
Russell	422	420	2	421	1		419	1		2		
Tazewell	784	753	31	780	3	1	749	3	1	31		
District 3	2,128	2,065	63	2,106	14	8	2,043	14	8	63		
Bland	58	57	1	57	1		56	1		1		
Carroll	287	286	1	286	1		285	1		1		
Grayson	165	156	9	163	1	1	154	1	1	9		
Smyth	417	407	10	415	2		405	2		10		
Washington	557	553	4	547	6	4	543	6	4	4		
Wythe	335	323	12	331	3	1	319	3	1	12		
Bristol	240	216	24	239		1	215		1	24		
Galax	69	67	2	68	1		66	1		2		
District 4	1,528	1,460	68	1,515	4	9	1,447	4	9	68		
Floyd	120	115	5	115		5	110		5	5		
Giles	222	216	6	219	2	1	213	2	1	6		
Montgomery	631	609	22	626	2	3	604	2	3	22		
Pulaski	457	432	25	457			432			25		
Radford	98	88	10	98			88			10		
District 5	2,945	2,528	417	2,932	8	5	2,515	8	5	417		
Alleghany	187	180	7	187			180			7		
Botetourt	249	244	5	248	1		243	1		5		
Craig	45	45		45			45					
Roanoke	693	676	17	689	1	3	672	1	3	17		
Clifton Forge	66	58	8	66			58			8		
Covington	125	112	13	125			112			13		
Roanoke City	1,337	986	351	1,330	5	2	979	5	2	351		
Salem	243	227	16	242	1		226	1		16		
District 6	2,468	2,353	115	2,460	3	5	2,345	3	5	115		
Augusta	630	609	21	627	1	2	606	1	2	21		
Bath	74	69	5	74			69			5		
Highland	28	28		28			28					
Rockbridge	189	185	4	188		1	184		1	4		
Rockingham	785	780	5	782	1	2	777	1	2	5		
Buena Vista	77	73	4	77			73			4		
Harrisonburg	184	174	10	183	1		173	1		10		
Lexington	69	56	13	69			56			13		
Staunton	232	202	30	232			202			30		
Waynesboro	200	177	23	200			177			23		
District 7	1,760	1,665	95	1,744	5	11	1,650	5	10	94		1
Clarke	115	89	26	115			89			26		
Frederick	527	513	14	523	3	1	509	3	1	14		
Page	247	242	5	244	1	2	239	1	2	5		
Shenandoah	319	315	4	316		3	312		3	4		
Warren	285	273	12	281	1	3	269	1	3	12		
Winchester	267	233	34	265		2	232		1	33		
District 8	14,646	12,421	2,225	14,528	44	74	12,311	37	23	2,217	2	1
Arlington	1,808	1,408	400	1,790	7	11	1,391	6	11	399	1	
Fairfax	7,226	6,316	910	7,159	20	47	6,254	16	46	905	4	1
Loudoun	786	719	67	777	7	2	710	7	2	67		
Prince William	2,640	2,365	275	2,631	3	6	2,356	3	6	275		
Alexandria	1,408	903	505	1,397	5	6	894	3	6	503	2	
Fairfax City	257	238	19	255		2	236		2	19		
Falls Church	94	83	11	93	1		82	1		11		
Manassas	309	279	30	309			279			30		
Manassas Park	118	110	8	117	1		109	1		8		
District 9	1,298	1,027	271	1,294	2	2	1,024	1	2	270	1	
Culpeper	345	266	79	344	1		265	1		79		
Fauquier	470	387	83	468	1	1	386		1	82	1	
Madison	143	112	31	143			112			31		
Orange	262	195	67	262			195			67		
Rappahannock	78	67	11	77		1	66		1	11		
District 10	1,874	1,391	483	1,860	2	12	1,377	2	12	483		
Albemarle	695	595	100	692	1	2	592	1	2	100		
Fluvanna	157	94	63	157			94			63		
Greene	107	98	9	105		2	96		2	9		
Louisa	228	141	87	227	1		140	1		87		
Nelson	179	126	53	173		6	120		6	53		
Charlottesville	508	337	171	506		2	335		2	171		
District 11	2,524	1,900	624	2,514	8	2	1,895	2	2	619	5	
Amherst	357	285	72	357			285			72		
Appomattox	157	118	39	157			118			39		
Bedford	464	401	63	459	3	2	397	2	2	62	1	
Campbell	613	498	115	610	3		497	1		113	2	
Bedford City	51	41	12	53			41			12		
Lynchburg	881	557	323	878	2		557			321	2	

(cont Inued)

TABLE 10 - LIVE BIRTHS BY RACE AND PLACE OF DELIVERY BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

Planning District/ City or County	ALL LIVE BIRTHS			PLACE OF DELIVERY								
				TOTAL			WHITE			NONWHITE		
				Hosp. Birth	Non-Hosp. Birth		Hosp. Birth	Non-Hosp. Birth		Hosp. Birth	Non-Hosp. Birth	
	Total	White	Nonwhite		Physi- cian	Midwife and Other		Physi- cian	Midwife and Other		Physi- cian	Midwife and Other
STATE OF VIRGINIA	73,349	54,927	18,422	72,804	265	280	54,553	162	206	18,251	103	74
District 12	2,998	2,057	941	2,986	6	6	2,048	3	6	938	3	
Franklin	420	353	67	420			353			67		
Henry	732	530	202	728	3	1	527	2	1	201	1	
Patrick	172	154	18	172			154			18		
Pittsylvania	860	520	340	854	2	4	515	1	4	339	1	
Danville	592	357	235	590	1	1	356		1	234	1	
Martinsville	222	143	79	222			143			79		
District 13	1,129	551	578	1,108	9	12	548	2	1	560	7	11
Brunswick	209	81	128	196	4	9	79	1	1	117	3	8
Halifax	402	209	193	400	2		209			191	2	
Mecklenburg	438	221	217	432	3	3	220	1		212	2	3
South Boston	80	40	40	80			40			40		
District 14	1,105	559	546	1,072	14	19	551	3	5	521	11	14
Amelia	105	65	40	104	1		65			39	1	
Buckingham	138	74	64	137		1	73		1	64		
Charlotte	193	100	93	179	2	12	100			79	2	12
Cumberland	89	45	44	83	4	2	41	2	2	42	2	
Lunenburg	139	60	79	136	2	1	59		1	77	2	
Nottoway	203	108	95	198	3	2	106	1	1	92	2	1
Prince Edward	238	107	131	235	2	1	107			128	2	1
District 15	8,164	5,263	2,901	8,137	19	8	5,249	6	8	2,888	13	
Charles City Co.	92	17	75	92			17			75		
Chesterfield	1,777	1,602	175	1,775	1	1	1,600	1	1	175		
Goochland	139	86	53	138			85			53		
Hanover	592	488	104	591	1		488			103	1	
Henrico	2,172	1,686	486	2,165	4	3	1,681	2	3	484	2	
New Kent	119	81	38	118	1		81			37	1	
Powhatan	137	123	14	136		1	122		1	14		
Richmond City	3,136	1,180	1,956	3,122	12	2	1,175	3	2	1,947	9	
District 16	1,739	1,396	343	1,731	4	4	1,393		3	338	4	1
Caroline	247	151	96	243	2		150		1	93	2	
King George	152	109	43	152			109			43		
Spotsylvania	561	461	100	559	1	1	460		1	99	1	
Stafford	588	547	41	586	1	1	546		1	40	1	
Fredericksburg	191	128	63	191			128			63		
District 17	499	285	214	487	12		281	4		206	8	
Lancaster	117	70	47	115	2		70			45	2	
Northumberland	111	66	45	107	4		64	2		43	2	
Richmond	96	62	34	93	3		60	2		33	1	
Westmoreland	175	87	88	172	3		87			85	3	
District 18	689	468	221	682	4	3	462	3	3	220	1	
Essex	108	59	49	104	2	2	56	1	2	48	1	
Gloucester	244	207	37	243	1		206	1		37		
King and Queen	82	33	49	82			33			49		
King William	122	77	45	121	1		76	1		45		
Mathews	60	46	14	60			46			14		
Middlesex	73	46	27	72		1	45		1	27		
District 19	2,260	1,188	1,072	2,244	11	5	1,181	6	1	1,063	5	4
Dinwiddie	204	117	87	197	5	2	114	3		83	2	2
Greensville	156	47	109	156			47			109		
Prince George	332	225	107	330	2		223	2		107		
Surry	81	25	56	79	1	1	25			54	1	1
Sussex	149	46	103	147	1	1	46			101	1	
Colonial Heights	171	164	7	171			164			7		
Emporia	73	27	46	73			27			46		
Hopewell	384	280	104	383	1		279	1		104		
Petersburg	710	257	453	708	1	1	256		1	452	1	
District 20	13,845	8,911	4,934	13,731	79	35	8,825	51	35	4,906	28	
Isle of Wight	291	160	131	290		1	159		1	131		
Southampton	232	121	111	232			121			111		
Chesapeake	1,800	1,178	622	1,782	13	5	1,163	10	5	619	3	
Franklin City	115	48	67	113	2		48			65	2	
Norfolk	4,958	2,908	2,050	4,925	22	11	2,881	16	11	2,044	6	
Portsmouth	1,859	899	960	1,842	15	2	891	6	2	951	9	
Suffolk	736	310	426	733	2	1	308	1	1	425	1	
Virginia Beach	3,854	3,287	567	3,814	25	15	3,254	18	15	560	7	
District 21	5,379	3,497	1,882	5,365	2	2	3,491	1	5	1,874	6	2
James City Co.	260	177	83	259		1	176		1	83		
York	266	214	52	266			214			52		
Hampton	2,043	1,299	744	2,038	2	3	1,297		2	741	2	1
Newport News	2,634	1,668	966	2,626	5	3	1,665	1	2	961	4	1
Poquoson	88	84	4	88			84			4		
Williamsburg	88	55	33	88			55			33		
District 22	683	305	378	635	4	44	301		4	334	4	40
Accomack	436	206	230	400	3	33	202		4	198	3	29
Northampton	247	99	148	235	1	11	99			136	1	11
Unknown	5	4	1	5			4			1		

TABLE 11 - ILLEGITIMATE LIVE BIRTHS, IMMATURE BIRTHS, AND CONGENITAL ANOMALIES WITH PERCENT OF TOTAL BIRTHS
BY RACE, BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978

Planning District/ City or County	Illegitimate Live Births						Immature Births						Congenital Anomalies	
	Number			Percent			Number			Percent			Total	Percent
	Total	White	Nonwh	Total	White	Nonwh	Total	White	Nonwh	Total	White	Nonwh		
STATE OF VIRGINIA	12,546	3,953	8,593	17.1	7.2	46.6	5,399	3,247	2,152	7.4	5.9	11.7	656	0.9
District 1	101	97	4	6.5	6.4	20.0	121	119	2	7.8	7.8	10.0	19	1.2
Lee	24	24		6.4	6.4		20	20		5.3	5.3		3	0.8
Scott	14	13	1	5.1	4.7	100.0	20	20		7.2	7.2	0.0	2	0.7
Wise	56	53	3	6.8	6.6	18.8	71	70	1	8.7	8.7	6.3	14	1.7
Norton	7	7		9.9	10.3	0.0	10	9	1	14.1	13.2	33.3		0.0
District 2	162	152	10	7.6	7.2	27.8	174	173	1	8.1	8.2	2.8	25	1.2
Buchanan	52	52		8.1	8.1	0.0	59	59		9.2	9.2	0.0	7	1.1
Dickenson	17	17		5.8	5.9	0.0	26	25	1	8.9	8.6	100.0	1	0.3
Russell	32	32		7.6	7.6	0.0	27	27		6.4	6.4	0.0	7	1.7
Tazewell	61	51	10	7.8	6.8	32.3	62	62		7.9	8.2	0.0	10	1.3
District 3	199	169	30	9.4	8.2	47.6	145	140	5	6.8	6.8	7.9	30	1.4
Bland	2	2		3.4	3.5	0.0	4	4		6.9	7.0	0.0	1	1.7
Carroll	18	18		6.3	6.3	0.0	15	15		5.2	5.2	0.0		0.0
Grayson	16	13	3	9.7	8.3	33.3	9	9		5.5	5.8	0.0	3	1.8
Smyth	40	34	6	9.6	8.4	60.0	26	24	2	6.2	5.9	20.0	8	1.9
Washington	33	31	2	5.9	5.6	50.0	40	40		7.2	7.2	0.0	14	2.5
Wythe	36	31	5	10.7	9.6	41.7	28	28		8.4	8.7	0.0	3	0.9
Bristol	43	30	13	17.9	13.9	54.2	18	15	3	7.5	6.9	12.5	1	0.4
Galax	11	10	1	15.9	14.9	50.0	5	5		7.2	7.5	0.0		0.0
District 4	174	144	30	11.4	9.9	44.1	110	102	8	7.2	7.0	11.8	15	1.0
Floyd	11	8	3	9.2	7.0	60.0	5	5		4.2	4.3	0.0	1	0.8
Giles	19	16	3	8.6	7.4	50.0	21	20	1	9.5	9.3	16.7	4	1.8
Montgomery	63	61	2	10.0	10.0	9.1	35	34	1	5.5	5.6	4.5	9	1.4
Pulaski	64	49	15	14.0	11.3	60.0	42	38	4	9.2	8.8	16.0	1	0.2
Radford	17	10	7	17.3	11.4	70.0	7	5	2	7.1	5.7	20.0		0.0
District 5	467	224	243	15.9	8.9	58.3	199	155	44	6.8	6.1	10.6	23	0.6
Alleghany	21	16	5	11.2	8.9	71.4	10	10		5.3	5.6	0.0	3	1.6
Botetourt	16	12	4	6.4	4.9	80.0	18	16	2	7.2	6.6	40.0	1	0.4
Craig	2	2		4.4	4.4		1	1		2.2	2.2			0.0
Roanoke	48	41	7	6.9	6.1	41.2	41	40	1	5.9	5.9	5.9	7	1.0
Clifton Forge	8	2	6	12.1	3.4	75.0	2	2		3.0	3.4	0.0	1	1.5
Covington	17	10	7	13.6	8.9	53.8	6	3	3	4.8	2.7	23.1		0.0
Roanoke City	329	119	210	24.6	12.1	59.8	106	70	36	7.9	7.1	10.3	9	0.7
Salem	26	22	4	10.7	9.7	25.0	15	13	2	6.2	5.7	12.5	2	0.6
District 6	258	208	50	10.5	8.8	43.5	167	149	18	6.4	6.3	7.0	26	1.5
Augusta	60	53	7	9.5	8.7	33.3	45	44	1	7.1	7.2	4.8	8	1.3
Bath	7	6	1	9.5	8.7	20.0	7	7		9.5	10.1	0.0	3	4.1
Highland	2	2		7.1	7.1		3	3		10.7	10.7			0.0
Rockbridge	20	19	1	10.6	10.3	25.0	14	14		7.4	7.6	0.0	2	1.1
Rockingham	65	63	2	8.3	8.1	40.0	46	44	2	5.9	5.6	40.0	13	1.7
Buena Vista	9	8	1	11.7	11.0	25.0	3	3		3.9	4.1	0.0		0.0
Harrisonburg	21	15	6	11.4	8.6	60.0	13	13		7.1	7.5	0.0	5	2.7
Lexington	7	3	4	10.1	5.4	30.8	3	3		4.3	5.4	0.0	1	1.4
Staunton	32	14	18	13.8	6.9	60.0	12	9	3	5.2	4.5	10.0	2	0.9
Waynesboro	35	25	10	17.5	14.1	43.5	11	9	2	5.5	5.1	8.7	2	1.0
District 7	226	177	49	12.8	10.6	51.6	128	116	12	7.3	7.0	12.6	25	1.4
Clarke	23	7	16	20.0	7.9	61.5	14	11	3	12.2	12.4	11.5	1	0.9
Frederick	51	44	7	9.7	8.6	50.0	38	36	2	7.2	7.0	14.3	8	1.5
Page	36	34	2	14.6	14.0	40.0	17	14	3	6.1	5.8	20.0	7	2.8
Shenandoah	24	23	1	7.5	7.3	25.0	20	20		6.3	6.3	0.0	2	0.6
Warren	42	35	7	14.7	12.8	58.3	19	19		6.7	7.0	0.0	5	1.8
Winchester	50	34	16	18.7	14.6	47.1	22	16	6	8.2	6.9	17.6	2	0.7
District 8	1,534	831	703	10.5	6.7	31.6	862	626	236	5.9	5.0	10.6	91	0.6
Arlington	264	127	137	14.6	9.0	34.3	131	80	51	7.2	5.7	12.8	8	0.4
Fairfax	557	356	201	7.7	5.6	22.1	369	286	83	5.1	4.5	9.1	37	0.5
Loudoun	78	47	31	9.9	6.5	46.3	49	38	11	6.2	5.3	16.4	7	0.9
Prince William	205	145	60	7.8	6.1	21.8	167	142	25	6.3	6.0	9.1	27	1.0
Alexandria	350	103	247	24.9	11.4	48.9	108	45	63	7.7	5.0	12.5	5	0.4
Fairfax City	19	13	6	7.4	5.5	31.6	15	15		5.8	6.3	0.0	2	0.8
Falls Church	7	5	2	7.4	6.0	18.2	5	5		5.3	6.0	0.0		0.0
Manassas	33	17	16	10.7	6.1	53.3	13	11	2	4.2	3.9	6.7	3	1.0
Manassas Park	21	18	3	17.8	16.4	37.5	5	4	1	4.2	3.6	12.5	2	1.7
District 9	203	70	133	15.6	6.8	49.1	76	56	20	5.9	5.5	7.4	16	1.2
Culpeper	53	17	36	15.4	6.4	45.6	24	15	9	7.0	5.6	11.4	4	1.2
Fauquier	63	20	43	13.4	5.2	51.8	17	14	3	3.6	3.6	3.6	6	1.3
Madison	22	8	14	15.4	7.1	45.2	9	6	3	6.3	5.4	9.7		0.0
Orange	59	22	37	22.5	11.3	55.2	22	18	4	8.4	9.2	6.0	4	1.5
Rappahannock	6	3	3	7.7	4.5	27.3	4	3	1	5.1	4.5	9.1	2	2.6
District 10	353	122	231	18.8	8.8	47.8	147	88	59	7.8	6.3	12.2	21	1.1
Albemarle	82	46	36	11.8	7.7	36.0	42	36	6	6.0	6.1	6.0	6	0.9
Fluvanna	26	3	23	16.6	3.2	36.5	9	4	5	5.7	4.3	7.9	3	1.9
Greene	15	13	2	14.0	13.3	22.2	8	7	1	7.5	7.1	11.1	1	0.9
Louisa	45	6	39	19.7	4.3	44.8	21	11	10	9.2	7.8	11.5	2	0.9
Nelson	37	17	20	20.7	13.5	37.7	17	11	6	9.5	8.7	11.3	2	1.1
Charlottesville	148	37	111	29.1	11.0	64.9	50	19	31	9.8	5.6	18.1	7	1.4
District 11	418	131	287	16.6	6.9	46.0	165	92	73	6.5	4.8	11.7	24	1.0
Amherst	48	26	22	13.4	9.1	30.6	19	10	9	5.3	3.5	12.5	1	0.3
Appomattox	21	6	15	13.4	5.1	38.5	9	3	6	5.7	2.5	15.4	4	2.5
Bedford	58	27	31	12.5	6.7	49.2	20	15	5	4.3	3.7	7.9	3	0.6
Campbell	66	28	38	10.8	5.6	33.0	45	31	14	7.3	6.2	12.2	8	1.3
Bedford City	16	7	9	30.2	17.1	75.0	4	3	1	7.5	7.3	8.3	1	1.9
Lynchburg	209	37	172	23.8	6.6	53.3	68	30	38	7.7	5.4	11.8	7	0.8

(continued)

TABLE 11 - ILLEGITIMATE LIVE BIRTHS, IMMATURE BIRTHS, AND CONGENITAL ANOMALIES WITH PERCENT OF TOTAL BIRTHS BY RACE, BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978

Planning District/ City or County	Illegitimate Live Births						Immature Births						Congenital Anomalies	
	Number			Percent			Number			Percent			Total	Percent
	Total	White	Nonwh	Total	White	Nonwh	Total	White	Nonwh	Total	White	Nonwh		
STATE OF VIRGINIA	12,546	3,953	8,593	17.1	7.2	46.6	5,399	3,247	2,152	7.4	5.9	11.7	656	0.9
District 12	553	139	414	18.4	6.8	44.0	245	131	114	8.2	6.4	12.1	25	0.8
Franklin	53	24	29	12.6	6.8	43.3	24	17	7	5.7	4.8	10.4	5	1.2
Henry	130	48	82	17.8	9.1	40.6	74	48	26	10.1	9.1	12.9	4	0.5
Patrick	15	11	4	8.7	7.1	22.2	10	8	2	5.8	5.2	11.1	1	0.6
Pittsylvania	172	29	143	20.0	5.6	42.1	75	29	46	8.7	5.6	13.5	7	0.8
Danville	123	13	110	20.8	3.6	46.8	42	16	26	7.1	4.5	11.1	7	1.2
Martinsville	60	14	46	27.0	9.8	58.2	20	13	7	9.0	9.1	8.9	1	0.5
District 13	248	25	223	22.0	4.5	38.6	103	32	71	9.1	5.8	12.3	14	1.2
Brunswick	55	2	53	26.3	2.5	41.4	21	7	14	10.0	8.6	10.9	1	0.5
Halifax	76	13	63	18.9	6.2	32.6	30	13	17	7.5	6.2	8.8	8	2.0
Mecklenburg	98	7	91	22.4	3.2	41.9	47	11	36	10.7	5.0	16.6	2	0.5
South Boston	19	3	16	23.8	7.5	40.0	5	1	4	6.3	2.5	10.0	3	3.8
District 14	276	29	247	25.0	5.2	45.2	103	32	71	9.3	5.7	13.0	12	1.1
Amelia	21	4	17	20.0	6.2	42.5	4	2	2	3.8	3.1	5.0	1	1.0
Buckingham	39	5	34	28.3	6.8	53.1	15	4	11	10.9	5.4	17.2	2	1.4
Charlotte	52	6	46	26.9	6.0	49.5	18	5	13	9.3	5.0	14.0	1	0.5
Cumberland	18		18	20.2	0.0	40.9	9	3	6	10.1	6.7	13.6	3	3.4
Lunenburg	36	3	33	25.9	5.0	41.8	10	1	9	7.2	1.7	11.4	3	2.2
Nottoway	48	6	42	23.6	5.6	44.2	20	10	10	9.9	9.3	10.5	1	0.5
Prince Edward	62	5	57	26.1	4.7	43.5	27	7	20	11.3	6.5	15.3	1	0.4
District 15	1,763	286	1,477	21.6	5.4	50.9	646	301	345	7.9	5.7	11.9	81	1.0
Charles City Co.	44	3	41	47.8	17.6	54.7	6		6	6.5	0.0	8.0	3	3.3
Chesterfield	97	54	43	5.5	3.4	24.6	105	84	21	5.9	5.2	12.0	13	0.7
Goochland	22	4	18	15.8	4.7	34.0	11	4	7	7.9	4.7	13.2	1	0.7
Hanover	77	24	53	13.0	4.9	51.0	44	32	12	7.4	6.6	11.5	8	1.4
Henrico	181	72	109	8.3	4.3	22.4	137	93	44	6.3	5.5	9.1	23	1.1
New Kent	18	5	13	15.1	6.2	34.2	14	8	6	11.8	9.9	15.8	1	0.8
Powhatan	9	3	6	6.6	2.4	42.9	11	9	2	8.0	7.3	14.3	3	2.2
Richmond City	1,315	121	1,194	41.9	10.3	61.0	318	71	247	10.1	6.0	12.6	29	0.9
District 16	266	109	157	15.3	7.8	45.8	135	99	36	7.8	7.1	10.5	4	0.2
Caroline	60	18	42	24.3	11.9	43.8	25	15	10	10.1	9.9	10.4	1	0.4
King George	26	9	17	17.1	8.3	39.5	11	7	4	7.2	6.4	9.3		0.0
Spotsylvania	75	31	44	13.4	6.7	44.0	41	32	9	7.3	6.9	9.0	2	0.4
Stafford	59	35	24	10.0	6.4	58.5	40	32	8	6.8	5.9	19.5	1	0.2
Fredericksburg	46	16	30	24.1	12.5	47.6	18	13	5	9.4	10.2	7.9		0.0
District 17	147	8	139	29.5	2.8	65.0	36	16	20	7.2	5.6	9.3	4	0.8
Lancaster	33	3	30	28.2	4.3	63.8	8	2	6	6.8	2.9	12.8	1	0.9
Northumberland	32	1	31	28.8	1.5	68.9	13	6	7	11.7	9.1	15.6	1	0.9
Richmond	24		24	25.0	0.0	70.6	3	2	1	3.1	3.2	2.9	1	1.0
Westmoreland	58	4	54	33.1	4.6	61.4	12	6	6	6.9	6.9	6.8	1	0.6
District 18	124	26	98	18.0	5.6	44.3	32	13	19	4.6	2.8	8.6	4	0.6
Essex	29	6	23	26.9	10.2	46.9	9	4	5	8.3	6.8	10.2	1	0.9
Gloucester	26	8	18	10.7	3.9	48.6	9	5	4	3.7	2.4	10.8	2	0.8
King and Queen	28	3	25	34.1	9.1	51.0	5	1	4	6.1	3.0	8.2		0.0
King William	25	4	21	20.5	5.2	46.7	7	3	4	5.7	3.9	8.9		0.0
Mathews	9	4	5	15.0	8.7	35.7	2		2	3.3	0.0	14.3		0.0
Middlesex	7	1	6	9.6	2.2	22.2				0.0	0.0	0.0	1	1.4
District 19	623	84	539	27.6	7.1	50.3	186	58	128	8.2	4.9	11.9	22	1.0
Dinwiddie	47	9	38	23.0	7.7	43.7	12	5	7	5.9	4.3	8.0	4	2.0
Greensville	67	3	64	42.9	6.4	58.7	8		8	5.1	0.0	7.3	2	1.3
Prince George	42	11	31	12.7	4.9	29.0	29	19	10	8.7	8.4	9.3	2	0.6
Surry	23	1	22	28.4	4.0	39.3	3		3	3.7	0.0	5.4	1	1.2
Sussex	64	3	61	43.0	6.5	59.2	15		15	10.1	0.0	14.6	2	1.3
Colonial Heights	7	7		4.1	4.3	0.0	7	7		4.1	4.3	0.0	3	1.8
Emporia	25	1	24	34.2	3.7	52.2	7	1	6	9.6	3.7	13.0	1	1.4
Hopewell	78	23	55	20.3	8.2	52.9	28	15	13	7.3	5.4	12.5	3	0.8
Petersburg	270	26	244	38.0	10.1	53.9	77	11	66	10.8	4.3	14.6	4	0.6
District 20	3,170	665	2,505	22.9	7.5	50.8	1,181	538	643	8.5	6.0	13.0	109	0.8
Isle of Wight	77	12	65	26.5	7.5	49.6	21	6	15	7.2	3.8	11.5	3	1.0
Southampton	68	4	64	29.3	3.3	57.7	21	5	16	9.1	4.1	14.4		0.0
Chesapeake	379	99	280	21.1	8.4	45.0	168	83	85	9.3	7.0	13.7	8	0.4
Franklin City	37	4	33	32.2	8.3	49.3	13	1	12	11.3	2.1	17.9		0.0
Norfolk	1,310	251	1,059	26.4	8.8	51.4	428	176	252	8.6	6.1	12.3	30	0.6
Portsmouth	638	72	566	34.3	8.0	59.0	199	61	138	10.7	6.8	14.4	23	1.2
Suffolk	262	13	249	35.6	4.2	58.5	73	15	58	9.9	4.8	13.6	8	1.1
Virginia Beach	399	205	194	10.4	6.2	34.2	258	191	67	6.7	5.8	11.8	37	1.0
District 21	1,016	233	783	18.9	6.7	41.6	392	191	201	7.3	5.5	10.7	39	0.7
James City Co.	57	16	41	21.9	9.0	49.4	25	11	14	9.6	6.2	16.9	1	0.4
York	30	6	24	11.3	2.8	46.2	17	12	5	6.4	5.6	9.6	2	0.8
Hampton	381	100	281	18.6	7.7	37.8	154	80	74	7.5	6.2	9.9	19	0.9
Newport News	521	100	421	19.8	6.0	43.6	190	84	106	7.2	5.0	11.0	16	0.6
Poquoson	8	7	1	9.1	8.3	25.0	2	2		2.3	2.4	0.0		0.0
Williamsburg	19	4	15	21.6	7.3	45.5	4	2	2	4.5	3.6	6.1	1	1.1
District 22	261	21	240	28.2	6.9	63.5	55	19	36	8.1	6.2	9.5	17	2.5
Accomack	151	11	140	34.6	5.3	60.9	35	13	22	8.0	6.3	9.6	9	2.1
Northampton	110	10	100	44.5	10.1	67.6	20	6	14	8.1	6.1	9.5	8	3.2
Unknown	4	3	1	80.0	75.0	100.0	1	1		20.0	25.0	0.0		0.0

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978

		Total	Und. 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
ENTIRE STATE	Total	73,349	275	11,953	23,673	22,398	11,532	2,917	461	33	7
	White	54,921	93	7,376	17,251	17,860	9,700	2,283	328	25	5
	Nonwhite	18,428	182	4,577	6,422	4,538	1,832	634	133	8	2
District 1	Total	1,542	5	341	575	403	151	57	10		
	White	1,522	5	337	568	396	150	56	10		
	Nonwhite	20		4	7	7	1	1			
Lee	Total	376	1	75	140	95	40	23	2		
	White	376	1	75	140	95	40	23	2		
	Nonwhite										
Scott	Total	277	2	52	92	77	38	12	3		
	White	276	3	52	91	77	38	12	3		
	Nonwhite	1			1						
Wise	Total	818	1	199	316	210	68	19	5		
	White	802	1	195	311	205	67	18	5		
	Nonwhite	16		4	5	5	1	1			
Norton	Total	71		15	27	21	5	3			
	White	68		15	26	19	5	3			
	Nonwhite	3			1	2					
District 2	Total	2,144	8	507	798	518	217	74	16	3	
	White	2,105	8	502	789	499	214	74	16	3	
	Nonwhite	36		5	9	19	3				
Buchanan	Total	644	2	165	245	139	67	21	3	1	
	White	642	3	165	245	138	66	21	3	1	
	Nonwhite	2				1	1				
Dickenson	Total	291		68	113	68	30	7	4	1	
	White	290		68	113	67	30	7	4	1	
	Nonwhite	1				1					
Russell	Total	422	1	109	150	101	39	17	4	1	
	White	420	1	109	149	100	39	17	4	1	
	Nonwhite	2			1	1					
Tazewell	Total	784	4	165	290	210	81	29	5		
	White	753		160	282	194	79	29	5		
	Nonwhite	31		5	8	16	2				
District 3	Total	2,128	8	455	737	525	279	102	20	2	
	White	2,065	6	430	718	518	271	100	20	2	
	Nonwhite	63	2	25	19	7	8	2			
Bland	Total	58		10	21	16	8	2	1		
	White	57		10	20	16	8	2	1		
	Nonwhite	1			1						
Carroll	Total	287		64	104	71	30	15	3		
	White	285		64	104	70	30	15	3		
	Nonwhite	1				1					
Grayson	Total	165	1	35	57	37	28	7			
	White	156	1	31	55	35	27	7			
	Nonwhite	9		4	2	2	1				
Smyth	Total	417		95	149	100	48	17	7	1	
	White	407		89	147	100	46	17	7	1	
	Nonwhite	10		6	2		2				
Washington	Total	557	2	121	177	137	93	23	4		
	White	553	2	119	175	137	93	23	4		
	Nonwhite	4		2	2						
Wythe	Total	335	2	59	128	80	39	23	4		
	White	323	1	56	124	78	38	22	4		
	Nonwhite	12	1	3	4	2	1	1			
Bristol	Total	240	3	54	78	66	25	11		1	
	White	216	2	44	72	66	21	10		1	
	Nonwhite	24	1	10	6	2	4	1			
Galax	Total	69		17	23	16	8	4	1		
	White	67		17	21	16	8	4	1		
	Nonwhite	2			2						
District 4	Total	1,528		276	521	473	199	48	10	1	
	White	1,460		260	504	447	192	46	10	1	
	Nonwhite	68		16	17	26	7	2			
Floyd	Total	120		23	45	29	15	5	2		
	White	115		22	44	37	15	5	2		
	Nonwhite	5		1	1	2	1				
Giles	Total	222		33	57	59	29	9	4	1	
	White	216		32	56	56	29	8	4	1	
	Nonwhite	6		1	1	3	1	1			
Montgomery	Total	531		92	210	208	101	20			
	White	609		90	204	197	98	20			
	Nonwhite	22		2	6	11	3				
Pulaski	Total	457		95	165	129	51	13	4		
	White	432		88	159	121	48	12			
	Nonwhite	25		7	6	8	3	1			
Radford	Total	98		13	34	38	12	1			
	White	88		8	31	36	12	1			
	Nonwhite	10		5	3	2					

(continued)

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

		Total	Und. 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Total
ENTIRE STATE	Total	72,349	275	11,953	23,673	22,398	11,632	2,917	461	33	7
	White	54,921	93	7,376	17,251	17,860	9,700	2,283	328	25	5
	Nonwhite	18,428	182	4,577	6,422	4,538	1,932	634	133	8	2
District 5	Total	2,945	12	454	955	936	466	105	16	1	
	White	2,528	8	346	806	828	428	95	16	1	
	Nonwhite	417	4	108	149	108	38	10			
Alleghany	Total	187	2	39	56	51	33	5	1		
	White	180	2	34	56	50	32	5	1		
	Nonwhite	7		5		1	1				
Botetourt	Total	249	1	37	70	81	44	14	2		
	White	244	1	34	69	81	43	14	2		
	Nonwhite	5		3	1		1				
Craig	Total	45		9	19	7	7	3			
	White	45		9	19	7	7	3			
	Nonwhite										
Roanoke	Total	693	1	57	179	284	138	29	4	1	
	White	676	1	54	175	277	136	28	4	1	
	Nonwhite	17		3	4	7	2	1			
Clifton Forge	Total	66		10	27	18	8	3			
	White	58		8	23	16	8	3			
	Nonwhite	8		2	4	2					
Covington	Total	125	1	22	54	26	17	4	1		
	White	112	1	20	50	22	15	3	1		
	Nonwhite	13		2	4	4	2	1			
Roanoke City	Total	1,337	7	247	468	399	167	43	6		
	White	986	3	156	334	311	141	35	6		
	Nonwhite	351	4	91	134	88	26	8			
Salem	Total	243		33	82	70	52	4	2		
	White	227		31	80	64	46	4	2		
	Nonwhite	16		2	2	6	6				
District 6	Total	2,468	12	366	842	727	345	111	12	3	
	White	2,353	12	344	791	749	336	106	12	3	
	Nonwhite	115		22	51	28	9	5			
Augusta	Total	630	2	83	233	188	93	24	6	1	
	White	609	2	81	221	183	93	22	6	1	
	Nonwhite	21		2	12	5		2			
Bath	Total	74	1	12	25	22	13		1		
	White	69	1	11	23	22	11		1		
	Nonwhite	5		1	2		2				
Highland	Total	28		4	12	6	4	2			
	White	28		4	12	6	4	2			
	Nonwhite										
Rockbridge	Total	189	1	29	61	63	22	11	2		
	White	185	1	28	59	63	21	11	2		
	Nonwhite	4		1	2		1				
Rockingham	Total	785	4	129	276	241	101	29	3	2	
	White	780	4	128	275	238	101	29	3	2	
	Nonwhite	5		1	1	3					
Buena Vista	Total	77		16	20	20	16	5			
	White	73		16	20	17	16	4			
	Nonwhite	4				3		1			
Harrisonburg	Total	184		21	52	73	26	12			
	White	174		17	50	70	26	11			
	Nonwhite	10		4	2	3		1			
Lexington	Total	69	2	8	24	21	5	9			
	White	56	2	7	14	19	5	9			
	Nonwhite	13		1	10	2					
Staunton	Total	232		33	69	76	46	6			
	White	202		29	54	72	42	5			
	Nonwhite	30		4	15	6	4	1			
Waynesboro	Total	200	2	31	70	65	19	13			
	White	177	2	23	63	59	17	13			
	Nonwhite	23		8	7	6	2				
District 7	Total	1,760	9	308	632	503	242	53	10	2	1
	White	1,665	6	286	590	485	238	48	9	2	1
	Nonwhite	95	3	22	42	18	4	5	1		
Clarke	Total	115	1	22	36	33	14	8	1		
	White	89		17	22	29	13	7	1		
	Nonwhite	26	1	5	14	4	1	1			
Frederick	Total	527	2	92	191	137	84	17	3		1
	White	513	2	86	188	134	82	17	3		1
	Nonwhite	14		6	3	3	2				
Page	Total	247	3	57	81	70	26	9	1		
	White	242	3	56	81	67	26	8	1		
	Nonwhite	5		1		3		1			
Shenandoah	Total	319	1	51	132	83	44	4	2		
	White	315	1	50	129	83	44	4	2		
	Nonwhite	4		1	3						

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TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

ENTIRE STATE	Total White Nonwhite	Total	Und. 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
		73,349 54,921 18,428	275 93 182	11,953 7,376 4,577	23,673 17,251 6,422	22,398 17,660 4,738	11,632 9,700 1,932	2,917 2,283 634	461 328 133	33 25 8	7 5 2
District 7 (continued)											
Warren	Total	285	1	43	94	95	41	10	1		
	White	273		39	89	95	41	8	1		
	Nonwhite	12	1	4	5			2			
Winchester	Total	267	1	43	98	85	33	5	2		
	White	233		38	81	77	32	4	1		
	Nonwhite	34	1	5	17	8	1	1	1		
District 8											
	Total	14,646	14	1,320	3,615	5,201	3,513	668	105	6	4
	White	12,421	5	970	2,960	4,484	3,135	768	89	6	4
	Nonwhite	2,225	9	350	655	717	378	100	16		
Arlington	Total	1,808	1	137	433	658	437	127	14	1	
	White	1,408		83	317	518	376	103	10	1	
	Nonwhite	400	1	54	116	140	61	24	4		
Fairfax	Total	7,226	6	524	1,547	2,594	1,981	503	63	4	4
	White	6,316	2	420	1,322	2,275	1,774	457	58	4	4
	Nonwhite	910	4	104	225	319	207	46	5		
Loudoun	Total	786		92	178	283	188	39	6		
	White	719		69	161	267	180	38	4		
	Nonwhite	67		23	17	16	8	1	2		
Prince William	Total	2,640	3	300	818	920	472	118	8	1	
	White	2,365	2	256	727	837	431	104	7	1	
	Nonwhite	275	1	44	91	83	41	14	1		
Alexandria	Total	1,408	2	171	417	466	286	58	7		
	White	903		68	230	323	234	45	3		
	Nonwhite	505	3	103	187	143	52	13	4		
Fairfax City	Total	257		24	63	97	60	11	2		
	White	238		19	56	92	59	10	2		
	Nonwhite	19		5	7	5	1	1			
Falls Church	Total	94		5	14	35	33	7			
	White	83		4	12	33	28	6			
	Nonwhite	11		1	2	2	5	1			
Manassas	Total	309	1	42	100	114	44	4	4		
	White	279	1	27	94	107	42	4	4		
	Nonwhite	30		15	6	7	2				
Manassas Park	Total	118		25	45	34	12	1	1		
	White	110		24	41	32	11	1	1		
	Nonwhite	8		1	4	2	1				
District 9											
	Total	1,298	7	261	403	389	179	51	7	1	
	White	1,027	4	166	317	337	154	41	7	1	
	Nonwhite	271	3	95	86	52	25	10			
Culpeper	Total	345	2	69	111	94	54	15			
	White	266	1	43	81	82	47	12			
	Nonwhite	79	1	26	30	12	7	3			
Fauquier	Total	470	1	84	144	150	66	18	6	1	
	White	387		52	119	137	56	16	6	1	
	Nonwhite	83	1	32	25	13	10	2			
Madison	Total	143	2	20	43	40	19	6	1		
	White	112	2	21	35	31	15	7	1		
	Nonwhite	31		9	8	9	4	1			
Orange	Total	262	2	64	79	77	30	10			
	White	195	1	40	60	62	26	6			
	Nonwhite	67	1	24	19	15	4	4			
Rappahannock	Total	78		14	26	28	10				
	White	67		10	22	25	10				
	Nonwhite	11		4	4	3					
District 10											
	Total	1,874	7	316	563	569	332	75	11	1	
	White	1,391	3	193	392	459	278	58	8	1	
	Nonwhite	483	4	123	171	110	54	17	3	1	
Albemarle	Total	695		89	208	227	134	29	7	1	
	White	595		71	172	202	117	27	6		
	Nonwhite	100		18	36	25	17	2	1	1	
Fluvanna	Total	157	2	30	48	46	23	7	1		
	White	94	1	12	29	33	16	2	1		
	Nonwhite	63	1	18	19	13	7	5			
Greene	Total	107		20	31	35	19	2			
	White	98		19	28	32	17	2			
	Nonwhite	9		1	3	3	2				
Louisa	Total	228	2	60	71	59	29	7			
	White	141	1	32	43	37	23	5			
	Nonwhite	87	1	28	28	22	6	2			
Nelson	Total	179		28	65	42	35	8	1		
	White	126		20	41	32	27	6			
	Nonwhite	53		8	24	10	8	2	1		
Charlottesville	Total	508	3	89	140	160	92	22	2		
	White	337	1	39	79	123	78	16	1		
	Nonwhite	171	2	50	61	37	14	6	1		

(continued)
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TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

		Total	Und. 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
ENTIRE STATE	Total	73,349	275	11,953	23,673	22,398	11,632	2,917	461	23	7
	White	54,921	93	7,376	17,251	17,860	9,700	2,283	328	25	5
	Nonwhite	18,428	182	4,577	6,422	4,538	1,932	634	133	8	2
District 11	Total	2,524	12	416	853	779	363	86	14	1	
	White	1,900	4	254	627	636	305	66	7	1	
	Nonwhite	624	8	162	226	143	58	20	7		
Arlington	Total	357		57	125	110	54	10	1		
	White	285		43	93	92	47	9			
	Nonwhite	72		14	32	18	7	1			
Appomattox	Total	157	1	30	50	43	21	12			
	White	110		16	40	38	16	8			
	Nonwhite	39	1	14	10	5	5	4			
Bedford	Total	464	1	71	149	163	56	20	3	1	
	White	401		53	126	151	49	19	2	1	
	Nonwhite	63	1	18	23	12	7	1	1		
Campbell	Total	613	3	101	207	188	91	18	5		
	White	498	2	71	165	160	82	14	4		
	Nonwhite	115	1	30	42	28	9	4	1		
Bedford City	Total	53		15	16	13	6	3			
	White	41		10	13	9	6	3			
	Nonwhite	12		5	3	4					
Lynchburg	Total	880	7	142	306	262	135	23	5		
	White	557	2	61	190	186	105	13			
	Nonwhite	323	5	81	116	76	30	10	5		
District 12	Total	2,998	13	590	1,009	859	389	110	26	2	
	White	2,057	7	343	666	652	295	74	18	2	
	Nonwhite	941	6	247	343	207	94	36	8		
Franklin	Total	420	4	75	125	133	68	14	1		
	White	353	2	57	107	119	54	13	1		
	Nonwhite	67	2	18	18	14	14	1			
Henry	Total	732	5	159	240	200	93	27	7	1	
	White	530	4	107	163	164	67	20	4	1	
	Nonwhite	202	1	52	77	36	26	7	3		
Patrick	Total	172		34	55	57	20	5	1		
	White	154		30	48	51	19	5	1		
	Nonwhite	18		4	7	6	1				
Pittsylvania	Total	860	3	166	304	228	111	37	11		
	White	520		76	179	156	80	20	9		
	Nonwhite	340	3	90	125	72	31	17	2		
Danville	Total	592		105	211	181	73	17	4	1	
	White	357		48	124	120	55	7	2	1	
	Nonwhite	235		57	87	61	18	10	2		
Martinsville	Total	222	1	51	74	60	24	10	2		
	White	143	1	25	45	42	20	9	1		
	Nonwhite	79		26	29	18	4	1	1		
District 13	Total	1,129	2	244	379	302	139	51	11	1	
	White	551		85	167	176	93	27	3		
	Nonwhite	578	2	159	212	126	46	24	8	1	
Brunswick	Total	209	1	51	79	50	19	7	2		
	White	81		17	27	21	13	2	1		
	Nonwhite	128	1	34	52	29	6	5	1		
Halifax	Total	402	1	69	134	123	47	24	2	1	
	White	209		25	67	76	27	14			
	Nonwhite	193	1	44	67	47	20	10	3	1	
Mecklenburg	Total	438		104	144	105	60	19	6		
	White	221		35	65	63	46	10	2		
	Nonwhite	217		69	79	42	14	9	4		
South Boston	Total	80		20	22	24	13	1			
	White	40		8	8	16	7	1			
	Nonwhite	40		12	14	8	6				
District 14	Total	1,105	6	237	353	285	164	45	15		
	White	559	1	73	179	177	109	15	5		
	Nonwhite	546	5	164	174	108	55	30	10		
Amelia	Total	105	1	21	33	28	17	4	1		
	White	65		11	22	14	14	3	1		
	Nonwhite	40	1	10	11	14	3	1			
Buckingham	Total	138	1	34	55	28	14	4	2		
	White	74		11	33	14	12	3	1		
	Nonwhite	64	1	23	22	14	2	1	1		
Charlotte	Total	193	1	47	55	47	32	8	3		
	White	100		16	23	33	24	3	2		
	Nonwhite	93	1	31	32	14	8	5	2		
Cumberland	Total	89	1	12	29	28	15	2	1		
	White	45		3	17	18	6	1			
	Nonwhite	44	1	9	12	10	9	2	1		
Lunenburg	Total	139	1	31	41	42	19	3	2		
	White	60	1	4	16	28	11				
	Nonwhite	79		27	25	14	8	3	2		

(continued)

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

ENTIRE STATE	Total	Und. 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	unk.
	73,349	275	11,953	23,673	22,398	11,632	2,917	461	33	7
	White	93	7,376	17,251	17,860	9,700	2,283	328	25	5
	Nonwhite	182	4,577	6,422	4,538	1,932	634	133	8	2
District 14 (continued)										
Nottoway	Total	203	1	40	63	51	35	12	1	
	White	108		14	34	37	20	2	1	
	Nonwhite	95	1	26	29	14	15	10		
Prince Edward	Total	238		52	77	61	32	11	5	
	White	107		14	34	33	22	3	1	
	Nonwhite	131		38	43	28	10	8	4	
District 15										
Charles City Co.	Total	8,164	26	1,183	2,410	2,740	1,417	340	47	1
	White	5,263	2	537	1,391	1,958	1,099	246	30	
	Nonwhite	2,901	24	646	1,019	782	318	94	17	1
Chesterfield	Total	92		25	27	30	8	2		
	White	17		3	6	7	1			
	Nonwhite	75		22	21	23	7	2		
Goochland	Total	1,777	1	163	397	676	423	105	12	
	White	1,602	1	135	351	617	391	95	12	
	Nonwhite	175		28	46	59	32	10		
Hanover	Total	139	1	21	46	49	14	8	1	
	White	86		8	27	36	8	7		
	Nonwhite	53	1	13	18	13	6	1		
Henrico	Total	592		72	173	192	121	28	5	1
	White	488		47	126	176	113	24	2	
	Nonwhite	104		25	47	16	8	4	3	1
New Kent	Total	2,172	3	226	604	814	415	99	11	
	White	1,686		167	472	634	328	76	9	
	Nonwhite	486	3	59	132	180	87	23	2	
Powhatan	Total	119	1	15	45	33	19	6		
	White	81		9	32	23	14	3		
	Nonwhite	38	1	6	13	10	5	3		
Richmond City	Total	132		10	46	47	26	8		
	White	123		9	37	44	26	7		
	Nonwhite	14		1	9	3	1			
District 16	Total	3,136	20	651	1,073	899	391	84	18	
	White	1,180	1	159	340	421	218	34	7	
	Nonwhite	1,956	19	492	733	478	173	50	11	
Caroline	Total	1,739	2	290	566	537	276	57	6	
	White	1,396	3	203	438	465	240	42	5	
	Nonwhite	343	4	87	128	72	36	15	1	
King George	Total	247	2	58	86	61	32	8		
	White	151	1	29	53	43	20	5		
	Nonwhite	96	1	29	33	18	12	3		
Stafford	Total	152		30	50	42	25	2	2	
	White	109		19	31	31	23	3	2	
	Nonwhite	43		11	19	11	2			
Fredericksburg	Total	561	3	80	188	177	94	19		
	White	461		57	155	152	82	15		
	Nonwhite	100	3	23	33	25	12	4		
District 17	Total	588	1	97	174	187	103	22	4	
	White	547	1	83	161	183	99	17	3	
	Nonwhite	41		14	13	4	4	1		
Lancaster	Total	191	1	25	68	70	22	5		
	White	128	1	15	38	56	16	2		
	Nonwhite	63		10	30	14	6	3		
Northumberland	Total	499	4	122	163	121	70	17	2	
	White	285	1	44	87	86	56	11		
	Nonwhite	214	3	78	76	35	14	6	2	
Richmond	Total	117		24	36	34	21	2		
	White	70		10	21	20	17	2		
	Nonwhite	47		14	15	14	4			
Westmoreland	Total	111		28	34	26	16	7		
	White	66		8	18	22	14	4		
	Nonwhite	45		20	16	4	2	3		
District 18	Total	96	2	21	35	24	10	4		
	White	62	1	10	20	21	7	3		
	Nonwhite	34	1	11	15	3	3	1		
Essex	Total	175	2	49	58	37	23	4	2	
	White	87		16	28	23	18	2		
	Nonwhite	88	2	33	30	14	5	2		
Gloucester	Total	689	2	125	227	203	101	26	4	1
	White	468		64	153	153	78	18	2	
	Nonwhite	221	2	61	74	50	23	8	2	1
District 19	Total	108		27	28	33	13	5	2	
	White	59		8	18	22	8	3		
	Nonwhite	49		19	10	11	5	2	2	
District 20	Total	244		43	80	78	35	7	1	
	White	207		30	70	66	33	7	1	
	Nonwhite	37		13	10	12	2			

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

ENTIRE STATE	Total	Und. 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
	73,349	275	11,953	23,673	22,398	11,632	2,917	461	33	7
	White	93	7,376	17,251	17,860	9,700	2,283	328	25	5
	Nonwhite	182	4,577	6,422	4,538	1,932	634	133	8	2
District 18 (continued)										
King and Queen	Total	82	1	16	27	27	10	1		
	White	33		6	8	14	5			
	Nonwhite	49	1	10	19	13	5	1		
King William	Total	122		21	43	34	17	5	1	1
	White	77		8	26	27	12	3		
	Nonwhite	45		13	17	7	5	2		1
Mathews	Total	60		10	20	19	8	2		
	White	46		7	16	15	6	2		
	Nonwhite	14		3	4	4	2	1		
Middlesex	Total	73	1	8	29	12	18	5		
	White	46		5	15	9	14	3		
	Nonwhite	27	1	3	14	3	4	2		
District 19										
	Total	2,260	20	452	795	595	316	70	11	1
	White	1,188	2	161	428	365	197	34	1	
	Nonwhite	1,072	18	291	367	230	119	36	10	1
Dinwiddie	Total	204	1	47	59	60	27	10		
	White	117		24	35	32	22	4		
	Nonwhite	87	1	23	24	28	5	6		
Greensville	Total	156	3	46	47	35	16	8	1	
	White	47		6	18	14	5	4		
	Nonwhite	109	3	40	29	21	11	4	1	
Prince George	Total	332	3	31	116	114	54	9	2	
	White	225		17	76	86	40	6		
	Nonwhite	107	3	14	42	28	14	3	3	
Surry	Total	81		26	19	21	7	4	2	1
	White	25		6	7	8	3	1		
	Nonwhite	56	1	20	12	13	4	3	2	1
Sussex	Total	149	3	29	53	41	16	7		
	White	46		4	12	20	8	2		
	Nonwhite	103	3	25	41	21	8	5		
Colonial Heights	Total	171		16	60	58	33	4		
	White	164		16	59	54	32	3		
	Nonwhite	7			1	4	1	1		
Emporia	Total	73		15	29	10	16	3		
	White	27		4	11	4	6	2		
	Nonwhite	46		11	18	6	10	1		
Hopewell	Total	384		88	153	91	45	7		
	White	280		53	118	68	34	7		
	Nonwhite	104		35	35	23	11			
Petersburg	Total	710	9	154	257	165	102	18	5	
	White	257	2	31	92	79	47	5	1	
	Nonwhite	453	7	123	165	86	55	13	4	
District 20										
	Total	13,845	79	2,600	4,982	3,962	1,726	411	80	4
	White	8,911	14	1,255	3,269	2,813	1,264	251	45	1
	Nonwhite	4,934	65	1,345	1,713	1,149	462	160	35	4
Isle of Wight	Total	291	1	65	86	87	35	16	1	
	White	160		23	56	49	24	8		
	Nonwhite	131	1	42	30	38	11	8	1	
Southampton	Total	232	2	44	81	74	20	5	2	1
	White	121	1	10	40	51	16	1	2	
	Nonwhite	111	1	34	41	23	4	4	3	1
Chesapeake	Total	1,800	6	350	639	525	212	54	14	
	White	1,178	2	187	415	375	156	35	8	
	Nonwhite	622	4	163	224	150	56	19	6	
Franklin City	Total	115		26	43	28	15	2		1
	White	48		5	15	16	11	1		
	Nonwhite	67		21	28	12	4	1		1
Norfolk	Total	4,958	31	1,053	2,013	1,249	473	113	25	1
	White	2,908	4	511	1,263	762	299	57	12	
	Nonwhite	2,050	27	542	750	487	174	56	13	1
Portsmouth	Total	1,859	22	415	671	499	201	41	8	2
	White	899	1	115	338	302	123	18	2	
	Nonwhite	960	21	300	333	197	78	23	6	2
Suffolk	Total	736	11	158	230	197	112	22	6	
	White	310	2	28	87	117	65	9	2	
	Nonwhite	426	9	130	143	80	47	13	4	
Virginia Beach	Total	3,854	6	489	1,219	1,303	658	158	21	
	White	3,287	4	376	1,055	1,141	570	122	19	
	Nonwhite	567	2	113	164	162	88	36	2	
District 21										
	Total	5,379	13	923	2,022	1,575	679	140	25	2
	White	3,497	1	478	1,294	1,095	513	100	14	
	Nonwhite	1,882	12	445	728	480	166	40	11	
James City Co.	Total	260	1	43	83	80	40	10	3	
	White	177		22	51	58	36	8	2	
	Nonwhite	83	1	21	32	22	4	2	1	

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

ENTIRE STATE		Total	Und. 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
		73,349	275	11,953	23,673	22,398	11,632	2,917	461	33	7
	White	54,921	93	7,376	17,251	17,860	9,700	2,283	328	25	5
	Nonwhite	18,428	182	4,577	6,422	4,538	1,932	634	133	8	2
District 21 (continued)											
York	Total	266		39	83	72	59	13			
	White	214		25	63	61	54	11			
	Nonwhite	52		14	20	11	5	2			
Hampton	Total	2,043	1	335	774	620	255	47	11		
	White	1,299		187	499	411	165	29	8		
	Nonwhite	744	1	148	275	209	90	18	3		
Newport News	Total	2,634	11	471	1,019	758	302	61	10	2	
	White	1,668	1	224	632	575	236	45	3	2	
	Nonwhite	966	10	247	387	233	66	16	7		
Poquoson	Total	88		12	31	26	14	4	1		
	White	84		12	29	24	14	4	1		
	Nonwhite	4			2	2					
Williamsburg	Total	88		23	32	19	9	5			
	White	55		8	20	16	8	3			
	Nonwhite	33		15	12	3	1	2			
District 22											
	Total	683	9	164	272	145	69	20	3	1	
	White	305	1	43	116	81	55	7	1	1	
	Nonwhite	378	8	121	156	64	14	13	2		
Accomack	Total	436	2	99	171	101	44	13	2	1	
	White	206		28	76	59	36	5	1	1	
	Nonwhite	230	2	71	95	42	8	8	1		
Northampton	Total	247	4	65	101	44	25	7	1		
	White	99	1	15	40	22	19	2			
	Nonwhite	148	3	50	61	22	6	5	1		
Unknown	Total	5		3	1	1					
	White	4		2	1	1					
	Nonwhite	1		1							

TABLE 13
RESIDENT LIVE BIRTHS BY BIRTH ORDER BY BIRTHWEIGHT
VIRGINIA, 1978

Birthweight	Total	Birth Order									
		1	2	3	4	5	6	7	8	9	10+
TOTAL	73,349	33,243	24,074	10,207	3,519	1,284	498	243	111	62	79
Immature	5,399	2,539	1,575	771	311	113	42	18	10	8	4
Less than 1 lb. 2oz.	97	46	36	13	1				1	1	
1 lb. 2oz.-3 lb. 4oz.	806	383	230	113	47	22	3	2	1	2	2
3 lb. 5oz.-5 lb. 8oz.	4,496	2,110	1,309	645	263	91	39	16	9	5	2
Full Term	67,852	30,666	22,468	9,429	3,207	1,167	454	225	100	53	71
5 lb. 9oz.-7 lb. 11oz.	39,880	19,191	12,731	5,084	1,754	627	240	127	53	32	33
7 lb. 12oz.-9 lb. 14oz.	26,676	11,075	9,292	4,095	1,348	486	195	85	43	21	32
9 lb. 15oz. and over	1,296	400	445	250	105	54	19	13	4		6
Unknown	98	38	31	7	1	4	2		1	1	13

TABLE 14
RESIDENT LIVE BIRTHS BY BIRTHWEIGHT BY RACE AND AGE OF MOTHER
VIRGINIA, 1978

Age of Mother (in years)	Total	Birthweight (pounds/ounces)																Total Full	Over 11/00	Unknown
		Und. 1/02	1/02 2/03	2/04 3/04	3/05 4/06	4/07 5/08	Total Immature	5/09 6/09	6/10 7/11	7/12 8/13	8/14 9/14	9/15 10/16	10/17 11/18	11/19 12/20	12/21 1/22	1/23 2/24				
TOTAL	73,349	97	327	479	1,015	3,481	5,399	12,866	27,014	20,362	6,314	1,125	171	67,852	98					
Under 15	275	4	6	6	7	26	43	63	96	58	12	3		232						
15-19	11,953	22	74	107	242	820	1,265	2,720	4,513	2,683	647	80	23	10,666	22					
20-24	23,673	18	118	167	324	1,104	1,731	4,330	9,066	6,369	1,823	288	36	21,912	30					
25-29	22,398	39	83	116	270	916	1,424	3,513	8,203	6,624	2,169	387	52	20,948	26					
30-34	11,632	16	32	60	128	437	673	1,691	4,024	3,661	1,274	254	42	10,946	13					
35-39	2,917	2	12	20	39	147	220	451	960	836	334	97	15	2,693	4					
40-44	461		4	3	5	28	40	89	137	123	53	16	2	420	1					
45+	33					3	3	7	12	8	2		1	30						
Unknown	7							2	3					5	2					
WHITE	54,921	51	168	275	587	2,166	3,247	8,240	20,034	16,669	5,523	988	149	51,603	71					
Under 15	93	2	2	2	2	4	8	18	27	30	7	3		85						
15-19	7,376	10	34	50	113	389	596	1,344	2,827	1,972	538	67	19	6,767	13					
20-24	17,251	7	54	84	172	664	981	2,727	6,530	5,116	1,590	254	30	16,247	23					
25-29	17,860	22	50	79	181	657	989	2,486	6,474	5,570	1,927	347	47	16,851	20					
30-34	9,700	11	19	45	89	340	504	1,289	3,306	3,187	1,143	225	37	9,187	9					
35-39	2,283	1	8	15	25	92	141	314	758	695	278	80	14	2,139	3					
40-44	328		1	2	5	18	26	53	101	94	39	12	2	301	1					
45+	25					2	2	7	10	5	1			23						
Unknown	5							2	1					3	2					
NONWHITE	18,428	46	159	204	428	1,315	2,152	4,626	6,980	3,693	791	137	22	16,249	27					
Under 15	182	2	2	6	5	22	35	45	69	28	5			147						
15-19	4,577	12	40	57	129	431	669	1,376	1,686	711	109	13	4	3,899	9					
20-24	6,422	11	64	83	152	440	750	1,603	2,536	1,253	233	34	6	5,665	7					
25-29	4,538	17	33	37	89	259	435	1,027	1,729	1,054	242	40	5	4,097	6					
30-34	1,932	5	13	15	39	97	169	402	718	474	131	29	5	1,759	4					
35-39	634	1	4	5	14	55	79	137	202	141	56	17	1	554	1					
40-44	133		3	1		10	14	36	36	29	14	4		119						
45+	8					1	1	2	2	3	1			7						
Unknown	2													2	2					

TABLE 15
RESIDENT LIVE BIRTHS BY EDUCATION OF MOTHER BY BIRTH ORDER
VIRGINIA, 1978

Birth Order	Total	Highest Grade Completed						
		Elementary		High School		College		Unk.
		0-6	7-8	9-11	12	1-3	4+	
Total	73,349	770	3,458	15,800	29,106	11,972	11,948	295
1	33,243	209	1,178	7,123	13,181	5,502	5,914	136
2	24,074	194	895	4,579	10,065	4,145	4,121	75
3	10,207	128	637	2,300	4,046	1,626	1,435	35
4	3,519	98	366	1,025	1,220	465	321	24
5	1,284	54	174	411	392	158	94	1
6	498	29	106	187	108	35	32	1
7	243	21	41	83	57	22	18	1
8+	252	37	60	89	35	18	11	2
Unknown	29		1	3	2	1	2	20

TABLE 16
RESIDENT LIVE BIRTHS BY EDUCATION OF MOTHER BY TRIMESTER CARE BEGAN
VIRGINIA, 1978

Trimester Care Began	Total	Highest Grade Completed						
		Elementary		High School		College		Unk.
		0-6	7-8	9-11	12	1-3	4+	
TOTAL	73,349	770	3,458	15,800	29,106	11,972	11,948	295
First	58,680	485	2,164	10,677	23,958	10,442	10,782	172
Second	11,257	178	958	3,954	4,086	1,206	831	44
Third	2,027	58	241	792	650	154	114	18
None	525	32	61	236	139	37	7	13
Unknown	860	17	34	141	273	133	214	48

TABLE 17
RESIDENT LIVE BIRTHS BY BIRTH ORDER BY TRIMESTER CARE BEGAN
VIRGINIA, 1978

Trimester Care Began	Total	Birth Order								
		1	2	3	4	5	6	7	8+	Unk.
TOTAL	73,349	33,243	24,074	10,207	3,519	1,284	498	243	252	29
First	58,680	26,429	19,964	8,138	2,608	921	316	148	152	4
Second	11,257	5,268	3,136	1,623	687	276	134	69	61	3
Third	2,027	925	560	278	130	56	32	18	27	1
None	525	211	148	70	50	17	14	6	8	1
Unknown	860	410	266	98	44	14	2	2	4	20

TABLE 18
RESIDENT LIVE BIRTHS BY AGE OF MOTHER BY TRIMESTER CARE BEGAN
VIRGINIA, 1978

Trimester Care Began	Total	Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Unk.
Total	73,349	275	11,953	23,673	22,398	11,632	2,917	461	33	7
First	58,680	115	7,546	18,676	19,434	10,129	2,405	351	20	4
Second	11,257	115	3,371	3,921	2,282	1,079	395	83	10	1
Third	2,027	35	721	694	328	168	58	21	2	
None	525	6	200	181	74	43	18	2	1	
Unknown	860	4	115	201	280	213	41	4		2

TABLE 19 - COMPLICATIONS OF PREGNANCY REPORTED FOR RESIDENT LIVE BIRTHS
BY TRIMESTER CARE BEGAN, VIRGINIA, 1978

Complications of Pregnancy	Trimester Care Began					
	Total	1st	2nd	3rd	None	Unk.
Unduplicated Count of Births with Complications	17,230	13,825	2,524	462	103	316
Complications Arising During Pregnancy						
Infections of genital tract	137	80	20	11	1	25
Hemorrhage	247	187	41	7	3	9
Anemia	151	88	31	16	3	13
Other complications	494	342	88	24	3	37
Urinary Infections and Toxemias of Pregnancy and the Puerperium						
Urinary infections and renal disease	183	120	48	9	4	2
Pre-eclampsia and eclampsia	1,618	1,268	267	50	11	22
Toxemia, unspecified	422	345	64	10	1	2
Other toxemias and hyperemesis gravidarum	42	32	9	1		
Abortion	10	6	1		3	
Complications of Delivery						
Placenta previa	228	185	31	4	2	6
Premature separation of placenta	282	211	48	11	7	5
Other antepartum hemorrhage	23	7	4	2	1	9
Retained placenta	111	89	14	5	1	2
Other postpartum hemorrhage	110	85	20	4	1	
Abnormality of bony pelvis	79	65	11	1		2
Fetopelvic disproportion	2,657	2,176	383	61	8	29
Malpresentation of fetus	2,044	1,669	281	48	10	36
Prolonged labor of other origin	1,510	1,243	186	48	3	25
Laceration of perineum, rupture of uterus, or other obstetrical trauma	841	706	106	13	12	4
Premature rupture of membranes	964	729	176	28	13	18
Precipitate labor	116	37	13	8	5	3
Previous cesarean section	2,342	1,962	287	58	6	29
Umbilical cord complication	1,999	1,569	298	50	11	71
Other and unspecified	7,248	5,978	982	158	20	110
Complications of the Puerperium	7	6	1			
Conditions in Mother Unrelated to Pregnancy						
Chronic circulatory and genitourinary diseases	42	33	5	1		3
Syphilis	28	17	10	1		
Diabetes mellitus	339	275	53	9		3
Other infectious and virus diseases	236	131	27	6		72
Previous operation other than cesarean	80	68	7	3		2
Obesity	137	94	31	10	1	1
Other maternal conditions unrelated to pregnancy	489	367	98	17	2	5

TABLE 20 - CONGENITAL ANOMALIES REPORTED FOR RESIDENT LIVE BIRTHS
BY TRIMESTER CARE BEGAN, VIRGINIA, 1978

Congenital Anomalies	Trimester Care Began					
	Total	1st	2nd	3rd	None	Unk.
Unduplicated Count of Infants with Anomalies	656	503	107	28	10	8
All Congenital Anomalies						
Anencephalus	12	10		1		1
Spina bifida	33	24	8		1	
Congenital hydrocephalus	23	20	2	1		
Other anomalies of central nervous system	18	11	4		3	
Anomalies of the eye, ear, face, and neck	38	31	7			
Anomalies of the heart	29	22	4	1	2	
Other anomalies of circulatory system	9	8	1			
Anomalies of the respiratory system	10	8	2			
Cleft palate and cleft lip	70	53	7	5	3	2
Other anomalies of upper alimentary tract	9	7	1	1		
Other anomalies of digestive system	23	17	4	2		
Hypospadias	49	40	5	2	1	1
Other anomalies of genitourinary system	33	21	7	3	1	1
Clubfoot	95	77	14	1	3	
Polydactyly	94	69	18	7		
Syndactyly	14	12	1	1		
Other anomalies of limbs	66	47	14	2		3
Other anomalies of musculoskeletal system	18	14	4			
Anomalies of skin, hair, and nails	19	16		1	2	
Other and unspecified anomalies	3	2	1			
Syndromes affecting multiple systems	75	54	14	3	2	2

TABLE 21 - RESIDENT LIVE BIRTHS AND NATURAL FETAL DEATHS BY RACE AND SEX BY MONTH OF DELIVERY AND NUMBER OF INDIVIDUALS DELIVERED PER CONFINEMENT, VIRGINIA, 1978

Month	Live Births						Natural Fetal Deaths					
	Total	White		Nonwhite		Total	White			Nonwhite		
		Male	Female	Male	Female		Male	Female	Unk.	Male	Female	Unk.
TOTAL	73,349	28,284	26,637	9,430	8,998	6,131	365	277	3,748	230	165	1,346
January	5,936	2,240	2,186	757	753	529	33	20	321	17	12	126
February	5,577	2,143	2,027	721	686	421	35	18	254	15	9	90
March	6,155	2,386	2,235	799	735	537	21	17	353	11	15	120
April	5,523	2,213	2,015	665	630	502	31	20	312	18	13	108
May	5,830	2,302	2,166	696	666	515	31	26	306	20	17	115
June	5,851	2,300	2,116	747	688	466	20	27	287	18	6	108
July	6,495	2,529	2,353	810	803	538	34	17	314	23	20	130
August	6,659	2,550	2,383	872	854	538	35	30	330	21	13	109
September	6,406	2,438	2,300	872	796	536	31	24	347	18	9	107
October	6,427	2,498	2,362	793	774	514	27	29	310	17	16	115
November	6,029	2,305	2,164	803	757	524	43	25	306	23	22	105
December	6,461	2,380	2,330	895	856	511	24	24	308	29	13	113
Single births	71,951	27,806	26,134	9,236	8,775	6,035	334	259	3,735	215	155	1,337
Born as twins	1,377	470	499	192	216	94	31	17	12	15	10	9
Born as triplets	21	8	4	2	7	2		1	1			

TABLE 22 - RESIDENT LIVE BIRTHS BY SEX AND SEX RATIO BY RACE VIRGINIA, 1969-1978

Year	Total			White			Nonwhite		
	Male	Female	Males per 1,000 Females	Male	Female	Males per 1,000 Females	Male	Female	Males per 1,000 Females
1969	42,874	40,546	1,057	33,462	31,371	1,067	9,412	9,175	1,026
1970	44,133	41,948	1,052	34,334	32,323	1,062	9,799	9,625	1,018
1971	42,501	40,212	1,057	32,854	30,738	1,069	9,647	9,474	1,018
1972	38,718	36,350	1,065	29,788	27,652	1,077	8,930	8,698	1,027
1973	36,705	34,960	1,050	28,221	26,656	1,059	8,484	8,304	1,022
1974	36,478	34,588	1,055	28,008	26,240	1,067	8,470	8,348	1,015
1975	35,975	34,057	1,056	27,382	25,825	1,060	8,593	8,232	1,044
1976	35,875	34,097	1,052	27,259	25,753	1,058	8,616	8,344	1,033
1977	38,259	35,987	1,063	28,784	26,878	1,071	9,475	9,109	1,040
1978	37,714	35,635	1,058	28,284	26,637	1,062	9,430	8,998	1,048

TABLE 23 - RESIDENT PREGNANCY TERMINATIONS (LIVE BIRTHS, INDUCED ABORTIONS AND NATURAL FETAL DEATHS) BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE BY AGE OF MOTHER, VIRGINIA, 1978

Age of Mother	Total			White			Nonwhite		
	Number		Percent	Number		Percent	Number		Percent
	Total	Illeg.		Total	Illeg.		Total	Illeg.	
TOTAL	107,972	36,187	33.5	78,953	19,684	24.9	29,019	16,503	56.9
Under 15	689	639	92.7	294	246	83.7	395	393	99.5
15-19 years	22,207	14,824	66.8	14,921	8,487	56.9	7,286	6,327	87.0
15 years	1,513	1,303	86.1	834	637	76.4	679	666	98.1
16 years	2,979	2,407	80.8	1,850	1,331	71.9	1,129	1,076	95.3
17 years	4,413	3,149	71.4	2,943	1,800	61.2	1,470	1,349	91.8
18 years	6,283	4,119	65.6	4,385	2,492	56.8	1,898	1,627	85.7
19 years	7,019	3,846	54.8	4,909	2,227	45.4	2,110	1,619	76.7
20-24 years	35,355	12,748	36.1	25,140	6,825	27.1	10,215	5,923	58.0
25-29 years	28,925	4,983	17.2	22,214	2,484	11.2	6,711	2,499	37.2
30-34 years	15,209	2,002	13.2	12,231	1,081	8.8	2,978	921	30.9
35-39 years	4,533	754	16.6	3,412	419	12.3	1,121	335	29.9
40-44 years	905	179	19.8	636	107	16.8	269	72	26.8
45 years & over	79	13	16.5	55	5	9.1	24	8	33.3
Unknown	70	45		50	30		20	15	

TABLE 24 - RESIDENT LIVE BIRTHS BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE
BY AGE OF MOTHER, VIRGINIA, 1978

Age of Mother	Total			White			Nonwhite		
	Number		Percent Illeg.	Number		Percent Illeg.	Number		Percent Illeg.
	Total	Illeg.		Total	Illeg.		Total	Illeg.	
TOTAL	73,349	12,546	17.1	54,921	3,953	7.2	18,428	8,593	46.6
Under 15 years	275	229	83.3	93	49	52.7	182	180	98.9
15-19 years	11,953	5,476	45.8	7,376	1,731	23.5	4,577	3,745	81.8
15 years	711	517	72.7	325	141	43.4	386	376	97.4
16 years	1,486	972	65.4	799	333	41.7	687	639	93.0
17 years	2,330	1,195	51.3	1,392	364	26.1	938	831	88.6
18 years	3,261	1,385	42.5	2,092	447	21.4	1,169	938	80.2
19 years	4,165	1,407	33.8	2,768	446	16.1	1,397	961	68.8
20-24 years	23,673	4,401	18.6	17,251	1,393	8.1	6,422	3,008	46.8
25-29 years	22,398	1,649	7.4	17,860	491	2.7	4,538	1,158	25.5
30-34 years	11,632	555	4.8	9,700	197	2.0	1,932	358	18.5
35-39 years	2,917	191	6.5	2,283	74	3.2	634	117	18.5
40-44 years	461	37	8.0	328	16	4.9	133	21	15.8
45 years and over	33	4	12.1	25	2	0.0	8	4	50.0
Unknown	7	4		5	2		2	2	

TABLE 25 - RESIDENT INDUCED ABORTIONS BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE
BY AGE OF MOTHER, VIRGINIA, 1978

Age of Mother	Total			White			Nonwhite		
	Number		Percent Illeg.	Number		Percent Illeg.	Number		Percent Illeg.
	Total	Illeg.		Total	Illeg.		Total	Illeg.	
TOTAL	28,492	22,021	77.3	19,642	15,058	76.7	8,850	6,963	78.7
Under 15 years	378	377	99.7	187	186	99.5	191	191	100.0
15-19 years	9,319	8,796	94.4	6,968	6,514	93.5	2,351	2,282	97.1
15 years	732	726	99.2	471	466	98.9	261	260	99.6
16 years	1,775	1,350	98.2	988	965	97.7	387	385	99.5
17 years	1,911	1,840	96.3	1,448	1,384	95.6	463	456	98.5
18 years	2,758	2,583	93.7	2,128	1,978	93.0	630	605	96.0
19 years	2,543	2,297	90.3	1,933	1,721	89.0	610	576	94.4
20-24 years	9,850	7,769	78.9	6,638	5,200	78.3	3,212	2,569	80.0
25-29 years	4,813	3,073	63.8	3,068	1,895	61.8	1,745	1,178	67.5
30-34 years	2,534	1,329	52.4	1,705	833	48.9	829	496	59.8
35-39 years	1,199	510	42.5	807	321	39.8	392	189	48.2
40-44 years	331	129	39.0	223	84	37.7	108	45	41.7
45 years and over	30	9	30.0	20	5	25.0	10	4	40.0
Unknown	38	29		26	20		12	9	

TABLE 26 - RESIDENT NATURAL FETAL DEATHS BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE
BY AGE OF MOTHER, VIRGINIA, 1978

Age of Mother	Total			White			Nonwhite		
	Number		Percent Illeg.	Number		Percent Illeg.	Number		Percent Illeg.
	Total	Illeg.		Total	Illeg.		Total	Illeg.	
TOTAL	6,131	1,620	26.4	4,390	673	15.3	1,741	947	54.4
Under 15 years	36	33	91.7	14	11	78.6	22	22	100.0
15-19 years	935	552	59.0	577	242	41.9	358	310	86.6
15 years	70	60	85.7	38	30	78.9	32	30	93.8
16 years	118	85	72.0	63	33	52.4	55	52	94.5
17 years	172	114	66.3	103	52	50.5	69	62	89.9
18 years	264	151	57.2	165	67	40.6	99	84	84.8
19 years	311	142	45.7	208	60	28.8	103	82	79.6
20-24 years	1,832	578	31.6	1,251	232	18.5	581	346	59.6
25-29 years	1,714	261	15.2	1,286	98	7.6	428	163	38.1
30-34 years	1,043	118	11.3	826	51	6.2	217	67	30.9
35-39 years	417	53	12.7	322	24	7.5	95	29	30.5
40-44 years	113	13	11.5	85	7	8.2	28	6	21.4
45 years and over	16	0	0.0	10	0	0.0	6	0	0.0
Unknown	25	12		19	8		6	4	

TABLE 27 - NATURAL FETAL DEATHS BY PERIOD OF GESTATION BY RACE BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978

Planning District/ City or County	Natural Fetal Deaths			Length of Gestation					
	Total	White	Nonwhite	Under 20 Weeks			20 Weeks and Over		
				Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	6,131	4,390	1,741	5,243	3,830	1,413	888	560	328
<u>District 1</u>	<u>50</u>	<u>50</u>		<u>36</u>	<u>36</u>		<u>14</u>	<u>14</u>	
Lee	7	7		4	4		3	3	
Scott	2	2		2	2				
Wise	38	38		28	28		10	10	
Norton	3	3		2	2		1	1	
<u>District 2</u>	<u>163</u>	<u>163</u>		<u>136</u>	<u>136</u>		<u>27</u>	<u>27</u>	
Buchanan	53	53		42	42		11	11	
Dickenson	30	30		25	25		5	5	
Russell	16	16		13	13		3	3	
Tazewell	64	64		56	56		8	8	
<u>District 3</u>	<u>139</u>	<u>135</u>	<u>4</u>	<u>124</u>	<u>120</u>	<u>4</u>	<u>15</u>	<u>15</u>	
Bland	10	10		9	9		1	1	
Carroll	30	30		25	25		5	5	
Grayson	14	12	2	12	10	2	2	2	
Smyth	21	21		20	20		1	1	
Washington	31	30	1	27	26	1	4	4	
Wythe	27	26	1	26	25		1	1	
Bristol									
Galax	6	6		5	5		1	1	
<u>District 4</u>	<u>101</u>	<u>98</u>	<u>3</u>	<u>86</u>	<u>84</u>	<u>2</u>	<u>15</u>	<u>14</u>	<u>1</u>
Floyd	9	9		7	7		2	2	
Giles	20	20		19	19		1	1	
Montgomery	41	41		36	36		5	5	
Pulaski	26	24	2	22	20	2	4	4	
Radford	5	4	1	2	2		3	2	1
<u>District 5</u>	<u>344</u>	<u>296</u>	<u>48</u>	<u>302</u>	<u>263</u>	<u>39</u>	<u>42</u>	<u>33</u>	<u>9</u>
Alleghany	10	10		7	7		3	3	
Botetourt	30	28	2	24	23	1	6	5	1
Craig	5	5		5	5				
Roanoke	93	91	2	87	85	2	6	6	
Clifton Forge	6	4	2	5	3	2	1	1	
Covington	3	2	1	2	2		1		1
Roanoke City	160	121	39	139	107	32	21	14	7
Salem	37	35	2	33	31	2	4	4	
<u>District 6</u>	<u>143</u>	<u>140</u>	<u>3</u>	<u>121</u>	<u>119</u>	<u>2</u>	<u>22</u>	<u>21</u>	<u>1</u>
Augusta	52	52		47	47		5	5	
Bath	2	2		2	2				
Highland	1	1		1	1				
Rockbridge	4	4		2	2		2	2	
Rockingham	45	45		41	41		4	4	
Buena Vista	1	1		1	1				
Harrisonburg	9	9		8	8		1	1	
Lexington									
Staunton	20	19	1	13	13		7	6	1
Waynesboro	9	7	2	6	4	2	3	3	
<u>District 7</u>	<u>128</u>	<u>122</u>	<u>6</u>	<u>106</u>	<u>102</u>	<u>4</u>	<u>22</u>	<u>20</u>	<u>2</u>
Clarke	8	7	1	5	5		3	2	1
Frederick	37	35	2	30	28	2	7	7	
Page	18	18		16	16		2	2	
Shenandoah	23	23		18	18		5	5	
Warren	26	25	1	24	23	1	2	2	
Winchester	16	14	2	13	12	1	3	2	1
<u>District 8</u>	<u>1,266</u>	<u>1,069</u>	<u>197</u>	<u>1,123</u>	<u>957</u>	<u>166</u>	<u>143</u>	<u>112</u>	<u>31</u>
Arlington	126	99	27	115	91	24	11	8	3
Fairfax Co.	619	543	76	546	480	66	73	63	10
Loudoun	55	50	5	51	47	4	4	3	1
Prince William	239	212	27	204	186	18	35	26	9
Alexandria	161	102	59	144	93	51	17	9	8
Fairfax	14	14		13	13		1	1	
Falls Church	9	7	2	9	7	2			
Manassas	29	28	1	27	26	1	2	2	
Manassas Park	14	14		14	14				
<u>District 9</u>	<u>88</u>	<u>73</u>	<u>15</u>	<u>70</u>	<u>59</u>	<u>11</u>	<u>18</u>	<u>14</u>	<u>4</u>
Culpeper	23	18	5	12	10	2	11	8	3
Fauquier	41	32	9	36	28	8	5	4	1
Madison	2	2		1	1		1	1	
Orange	16	15	1	15	14	1	1	1	
Rappahannock	6	6		6	6				
<u>District 10</u>	<u>123</u>	<u>104</u>	<u>19</u>	<u>98</u>	<u>87</u>	<u>11</u>	<u>25</u>	<u>17</u>	<u>8</u>
Albemarle	48	43	5	42	38	4	6	5	1
Fluvanna	9	8	1	8	7	1	1	1	
Greene	10	10		6	6		4	4	
Louisa	13	9	4	8	6	2	5	3	2
Nelson	11	9	2	9	9		2	2	
Charlottesville	32	25	7	25	21	4	7	4	3
<u>District 11</u>	<u>257</u>	<u>199</u>	<u>58</u>	<u>214</u>	<u>173</u>	<u>41</u>	<u>43</u>	<u>26</u>	<u>17</u>
Amherst	40	31	9	34	29	5	6	2	4
Appomattox	12	8	4	10	7	3	2	1	1
Bedford	41	36	5	32	28	4	9	8	1
Campbell	66	56	10	56	48	8	10	8	2
Bedford City	8	7	1	7	6	1	1	1	
Lynchburg	90	61	29	75	55	20	15	6	9

(continued)

TABLE 27 - NATURAL FETAL DEATHS BY PERIOD OF GESTATION BY RACE BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

Planning District/ City or County	Natural Fetal Deaths			Length of Gestation					
	Total	White	Nonwhite	Under 20 Weeks			20 Weeks and Over		
				Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	6,131	4,390	1,741	5,243	3,830	1,413	888	560	328
District 12	294	194	100	243	163	80	51	31	20
Franklin	46	33	13	43	31	12	3	2	1
Henry	83	63	20	66	52	14	17	11	6
Patrick	14	12	2	10	9	1	4	3	1
Pittsylvania	75	47	28	59	37	22	16	10	6
Danville	59	30	29	49	25	24	10	5	5
Martinsville	17	9	8	16	9	7	1	1	1
District 13	137	65	22	120	55	65	17	10	7
Brunswick	25	10	15	23	9	14	2	1	1
Halifax	46	19	27	36	14	22	10	5	5
Mecklenburg	52	28	24	47	24	23	5	4	1
South Boston	14	8	6	14	8	6			
District 14	96	58	38	78	52	26	18	6	12
Amelia	9	5	4	5	3	2	4	2	2
Buckingham	11	7	4	7	6	1	4	1	3
Charlotte	23	13	10	18	13	5	5		5
Cumberland	5	5		5	5				
Lunenburg	8	6	2	5	4	1	3	2	1
Nottoway	19	11	8	17	10	7	2	1	1
Prince Edward	21	11	10	21	11	10			
District 15	929	561	368	806	493	313	123	68	55
Charles City Co.	12	1	11	9	1	8	3		3
Chesterfield	222	192	30	197	170	27	25	22	3
Goochland	14	5	9	13	5	8	1		1
Hanover	50	41	9	38	31	7	12	10	2
Henrico	257	184	73	227	162	65	30	22	8
New Kent	12	8	4	11	8	3	1		1
Powhatan	12	12		11	11		1	1	
Richmond City	350	118	232	300	105	195	50	13	37
District 16	159	129	30	148	122	26	11	2	4
Caroline	17	10	7	15	10	5	2		2
King George	11	10	1	9	9		2	1	1
Spotsylvania	55	47	8	52	44	8	3	3	
Stafford	45	41	4	44	40	4	1	1	
Fredericksburg	31	21	10	28	19	9	3	2	1
District 17	24	9	15	18	6	12	6	2	2
Lancaster	5		5	4		4	1		1
Northumberland	7	3	4	5	1	4	2	2	
Richmond	2	1	1	1	1		1		1
Westmoreland	10	5	5	8	4	4	2	1	1
District 18	45	29	16	40	26	14	5	3	2
Essex	8	4	4	8	4	4			
Gloucester	13	10	3	10	8	2	3	2	1
King and Queen	6	2	4	6	2	4			
King William	14	9	5	12	8	4	2	1	1
Mathews	2	2		2	2				
Middlesex	2	2		2	2				
District 19	224	96	128	177	80	97	47	16	31
Dinwiddie	22	10	12	14	8	6	8	2	6
Greensville	13	4	9	9	4	5	4		4
Prince George	30	20	10	22	15	7	8	5	3
Surry	4	2	2	4	2	2			
Sussex	16	3	13	14	3	11	2		2
Colonial Heights	6	6		4	4		2	2	
Emporia	10	3	7	10	3	7			
Hopewell	29	24	5	26	22	4	3	2	1
Petersburg	94	24	70	74	19	55	20	5	15
District 20	954	533	421	820	469	351	134	64	70
Isle of Wight	20	9	11	16	8	8	4	1	3
Southampton	20	5	15	15	5	10	5		5
Chesapeake	111	62	49	91	47	44	20	15	5
Franklin City	9	2	7	8	2	6	1		1
Norfolk	368	183	185	327	169	158	41	14	27
Portsmouth	96	49	47	76	40	36	20	9	11
Suffolk	92	30	62	78	25	53	14	5	9
Virginia Beach	238	193	45	209	173	36	29	20	9
District 21	377	231	146	310	197	113	67	34	33
James City Co.	25	14	11	17	11	6	8	3	5
York	21	12	9	16	10	6	5	2	3
Hampton	167	91	76	135	76	59	32	15	17
Newport News	151	104	47	130	91	39	21	13	8
Poquoson	6	6		5	5		1	1	
Williamsburg	7	4	3	7	4	3			
District 22	89	35	54	66	30	36	23	5	18
Accomack	55	22	33	41	18	23	14	4	10
Northampton	34	13	21	25	12	13	9	1	8
Unknown	1	1		1	1				

TABLE 28 - RESIDENT NATURAL FETAL DEATHS BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978

Planning District/ City or County	Total	Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Unk.
STATE OF VIRGINIA	6,131	36	935	1,832	1,714	1,043	417	113	16	25
District 1	50	1	16	12	9	4	2	2		4
Lee	7		2	2	1					2
Scott	2				1					1
Wise	38	1	13	8	7	4	2	2		1
Norton	3		1	2						
District 2	163	1	42	57	24	24	10	3		2
Buchanan	53		17	20	6	5	3	2		
Dickenson	30	1	10	5	3	9	1			1
Russell	16		4	3	3	4	2			
Tazewell	64		11	29	12	6	4	1		1
District 3	139	2	27	40	37	16	11	5	1	
Bland	10	1	1	3	1	1	2	1		
Carrroll	30	1	5	10	9	2	2	1		
Grayson	14		3	5	2	3	1			
Smyth	21		7	6	5	1	1		1	
Washington	31		4	8	13	3	3			
Wythe	27		6	5	5	6	2	3		
Bristol										
Galax	6		1	3	2					
District 4	101	2	14	27	22	18	6	2		
Floyd	9		2	2	3	1	1			
Giles	20		4	7	4	5				
Pulaski	41	2	4	14	7	8	5	1		
Montgomery	26		4	13	5	3		1		
Radford	5			1	3	1				
District 5	344	2	58	105	92	59	22	6		
Alleghany	10		2	5	1	1	1			
Botetourt	30		4	11	5	7	3			
Craig	5			1	3	1				
Roanoke	93		14	23	25	20	8	3		
Clifton Forge	6		1	2	2			1		
Covington	3			1	1	1				
Roanoke City	160	1	33	51	43	22	8	2		
Salem	37	1	4	11	12	7	2			
District 6	143		19	54	38	19	7	5	1	
Augusta	52		7	20	13	7	1	3	1	
Bath	2					2				
Highland	1			1						
Rockbridge	4			1		1	2			
Rockingham	45		8	16	14	4	2	1		
Buena Vista	1		1							
Harrisonburg	9		1	5	2		1			
Lexington										
Staunton	20			8	8	3	1			
Waynesboro	9		2	3	1	2		1		
District 7	128		22	45	34	16	10	1		
Clarke	8		1	4	2	1				
Frederick	37		1	13	15	5	2	1		
Page	18		4	5	4	3	2			
Shenandoah	23		5	7	6	2	3			
Warren	26		7	11	3	3	2			
Winchester	16		4	5	4	2	1			
District 8	1,266	1	135	203	381	285	125	26	3	2
Arlington	126		13	35	40	22	13	1	1	1
Fairfax	619		51	131	185	163	70	16		3
Loudoun	55		8	7	20	15	4			
Prince William	239	1	27	66	72	51	16	5	1	
Alexandria	161		26	46	48	23	14	3	1	
Fairfax City	14		1	3	5	4	1			
Falls Church	9			2	4	1	2			
Manassas	29		6	3	4	6	4	1		
Manassas Park	14		3	5	3		1	1		1
District 9	88	1	11	30	21	14	11			
Culpeper	23		3	9	3	4	4			
Fauquier	41	1	4	12	13	7	4			
Madison	2					1	1			
Orange	16		3	7	3	1	2			
Rappahannock	6		1	2	2	1				
District 10	123	1	12	41	37	20	8	2		1
Albemarle	48	1	5	13	15	10	3	1		
Fluvanna	9			6	2	1				
Greene	10		1	3	3	1	2			
Louisa	13			7	5					1
Nelson	11		2	1	5	1	2			
Charlottesville	32		4	11	7	7	1	2		
District 11	257	1	21	81	73	48	12	2	2	1
Amherst	40		3	13	14	8	1			1
Appomattox	12		1	5	2	2		1		
Sedford	41	1	3	15	14	7	1			
Campbell	66		9	15	17	14	8	1	2	
Bedford City	8		1	1	2	2	1	1		
Lynchburg	90		14	32	24	15	5			

(continued)

TABLE 28 - RESIDENT NATURAL FETAL DEATHS BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

Planning District/ City or County	Total	Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Unk.
STATE OF VIRGINIA	6,131	36	935	1,832	1,714	1,043	417	113	16	25
<u>District 12</u>	<u>294</u>		<u>54</u>	<u>86</u>	<u>95</u>	<u>41</u>	<u>11</u>	<u>4</u>	<u>3</u>	
Franklin	46		11	13	12	7	2		1	
Henry	83		13	25	29	13	3			
Patrick	14		3	4	3	2	1		1	
Pittsylvania	75		18	18	22	11	2	3	1	
Danville	59		8	19	22	7	2	1		
Martinsville	17		1	7	7	1	1			
<u>District 13</u>	<u>137</u>	<u>2</u>	<u>23</u>	<u>41</u>	<u>31</u>	<u>17</u>	<u>19</u>	<u>2</u>	<u>1</u>	<u>1</u>
Brunswick	25		3	7	7	6	1		1	
Halifax	46	2	6	14	9	4	10	1		
Mecklenburg	52		12	15	11	5	7	1		
South Boston	14		2	5	4	2	1			
<u>District 14</u>	<u>96</u>	<u>1</u>	<u>19</u>	<u>24</u>	<u>22</u>	<u>23</u>	<u>5</u>		<u>1</u>	<u>1</u>
Amelia	9			4	3	1				1
Buckingham	11		5	1	3	2				
Charlotte	23		1	9	3	7	3			
Cumberland	5				2	2			1	
Lunenburg	8		2	1	3		2			
Nottoway	19		6	2	4	7				
Prince Edward	21	1	5	7	4	4				
<u>District 15</u>	<u>929</u>	<u>9</u>	<u>106</u>	<u>257</u>	<u>289</u>	<u>189</u>	<u>62</u>	<u>14</u>		<u>3</u>
Charles City Co.	12		2	7	2	1				
Chesterfield	222	2	15	61	67	54	18	4		1
Goochland	14		1	2	4	5	2			
Hanover	50		3	10	14	14	8	1		
Henrico	257	1	22	62	95	57	16	4		
New Kent	12		2	1	6	2	1			
Powhatan	12		1	4	1	4	2			
Richmond City	350	6	60	110	100	52	15	5		2
<u>District 16</u>	<u>159</u>		<u>19</u>	<u>39</u>	<u>49</u>	<u>35</u>	<u>11</u>	<u>4</u>	<u>2</u>	
Caroline	17		3	7	2	4	1			
King George	11			2	4	2	2		1	
Spotsylvania	55		8	16	16	10	3	2		
Stafford	45		4	9	16	11	4	1		
Fredericksburg	31		4	5	11	8	1	1	1	
<u>District 17</u>	<u>24</u>		<u>7</u>	<u>9</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>1</u>		<u>1</u>
Lancaster	5		1	3	1					
Northumberland	7		4		2					1
Richmond	2			1		1				
Westmoreland	10		2	5		1	1	1		
<u>District 18</u>	<u>46</u>	<u>1</u>	<u>4</u>	<u>14</u>	<u>14</u>	<u>2</u>	<u>5</u>			
Essex	8	1	2	3	1	1				
Gloucester	13		1	3	3	4	2			
King and Queen	6			2	1	1	2			
King William	14		1	5	7	1				
Mathews	2			1	1					
Middlesex	2				1		1			
<u>District 19</u>	<u>224</u>		<u>47</u>	<u>69</u>	<u>55</u>	<u>37</u>	<u>14</u>	<u>2</u>		
Dinwiddie	22		3	7	5	2	5			
Greensville	13		3	4	3	2		1		
Prince George	30		3	7	13	4	3			
Surry	4		1	1	1	1				
Sussex	16		5	5	1	4	1			
Colonial Heights	6			1	3	2				
Emporia	10		4	2	3	1				
Hopewell	29		6	13	3	5	1	1		
Petersburg	94		22	29	23	16	4			
<u>District 20</u>	<u>954</u>	<u>9</u>	<u>199</u>	<u>214</u>	<u>249</u>	<u>123</u>	<u>36</u>	<u>22</u>	<u>1</u>	<u>1</u>
Isle of Wight	20		4	7	9					
Southampton	20		7	6	6		1			
Chesapeake	111	2	27	34	25	14	3	6		
Franklin City	9		1	3	4	1				
Norfolk	368	2	86	138	82	36	15	8	1	
Portsmouth	96	3	17	34	27	12	2	1		
Suffolk	92	1	21	28	23	11	5	3		
Virginia Beach	238	1	36	64	73	49	10	4		1
<u>District 21</u>	<u>377</u>	<u>1</u>	<u>55</u>	<u>136</u>	<u>117</u>	<u>38</u>	<u>19</u>	<u>5</u>	<u>1</u>	<u>2</u>
James City Co.	25		8	5	5	5	1	1		
York	21		3	6	9	1	2			
Hampton	167	1	21	65	52	15	7	2	1	3
Newport News	151		21	54	48	16	9	2		1
Poquoson	6			2	2	1				1
Williamsburg	7		2	4	1					
<u>District 22</u>	<u>89</u>	<u>1</u>	<u>15</u>	<u>38</u>	<u>21</u>	<u>8</u>	<u>5</u>	<u>1</u>		
Accomack	55		6	28	13	3	4			
Northampton	34	1	9	10	8	5	1			
Unknown	1				1					

TABLE 29 - INDUCED ABORTIONS BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE
BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978

Planning District/ City or County	All Induced Abortions			Illegitimate			Percent Illegitimate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	28,492	19,642	8,850	22,021	15,058	6,963	77.3	76.7	78.7
District 1	72	69	3	47	46	1	65.3	66.7	73.3
Lee	10	10		7	7		70.0	70.0	
Scott	5	5		1	1		20.0	20.0	
Wise	48	45	3	32	31	1	66.7	68.9	33.3
Norton	9	9		7	7		77.8	77.8	
District 2	101	97	4	76	73	3	75.2	75.3	75.0
Buchanan	20	20		15	15		75.0	75.0	
Dickenson	17	16	1	13	12	1	76.5	75.0	100.0
Russell	10	8	2	8	7	1	80.0	87.5	50.0
Tazewell	54	53	1	40	39	1	74.1	73.6	100.0
District 3	329	317	12	229	220	9	69.6	69.4	75.0
Bland	8	8		6	6		75.0	75.0	
Carroll	48	46	2	38	36	2	79.2	78.3	100.0
Grayson	22	22		16	16		72.7	72.7	
Smyth	69	66	3	43	41	2	62.3	62.1	66.7
Washington	64	63	1	49	48	1	76.6	76.2	100.0
Wythe	71	67	4	40	37	3	56.3	55.2	75.0
Bristol	28	28		23	23		82.1	82.1	
Galax	19	17	2	14	13	1	73.7	76.5	50.0
District 4	744	708	36	600	569	31	80.6	80.4	86.1
Floyd	28	26	2	17	16	1	60.7	61.5	50.0
Giles	58	58		33	33		56.9	56.9	
Montgomery	430	409	21	357	338	19	83.0	82.6	90.5
Pulaski	95	90	5	71	67	4	74.7	74.4	80.0
Radford	133	125	8	122	115	7	91.7	92.0	87.5
District 5	1,193	973	220	913	734	179	76.5	75.4	81.4
Alleghany	33	29	4	29	25	4	87.9	86.2	100.0
Botetourt	86	78	8	54	50	4	62.8	64.1	50.0
Craig	5	4	1	2	1	1	40.0	25.0	100.0
Roanoke	355	335	20	260	243	17	73.2	72.5	85.0
Clifton Forge	14	11	3	12	10	2	85.7	90.9	66.7
Covington	24	18	6	17	11	6	70.8	61.1	100.0
Roanoke City	569	397	172	451	312	139	79.3	78.6	80.8
Salem	107	101	6	88	82	6	82.2	81.2	100.0
District 6	621	562	59	503	452	51	81.0	80.4	86.4
Augusta	226	193	33	180	152	28	79.6	78.8	84.6
Bath	18	15	3	14	11	3	77.8	73.3	100.0
Highland	6	6		4	4		66.7	66.7	
Rockbridge	69	67	2	56	54	2	81.2	80.6	100.0
Rockingham	164	156	8	134	126	8	81.7	80.8	100.0
Buena Vista	24	23	1	19	18	1	79.2	78.3	100.0
Harrisonburg	53	50	3	45	43	2	84.9	86.0	66.7
Lexington	12	9	3	9	7	2	75.0	77.8	66.7
Staunton	24	22	2	21	20	1	87.5	90.9	50.0
Waynesboro	25	21	4	21	17	4	84.0	81.0	100.0
District 7	296	288	8	218	210	8	73.6	73.9	100.0
Clarke	21	20	1	15	14	1	71.4	70.0	100.0
Frederick	93	92	1	72	71	1	77.4	77.2	100.0
Page	35	34	1	20	19	1	57.1	55.9	100.0
Shenandoah	54	53	1	42	41	1	77.8	77.4	100.0
Warren	66	64	2	50	48	2	75.8	75.0	100.0
Winchester	27	25	2	19	17	2	70.4	68.0	100.0
District 8	6,095	5,313	782	4,693	4,119	574	77.0	77.5	73.4
Arlington	741	606	135	590	481	109	79.6	79.4	80.7
Fairfax	3,390	3,099	291	2,611	2,416	195	77.0	78.0	67.0
Loudoun	277	253	24	199	179	20	71.8	70.8	83.3
Prince William	787	694	93	575	512	63	73.1	73.8	67.7
Alexandria	687	465	222	556	381	175	80.9	81.9	78.8
Fairfax City	110	107	3	95	94	1	86.4	87.9	33.3
Falls Church	72	61	11	49	41	8	68.1	67.2	72.7
Manassas	29	26	3	18	15	3	62.1	57.7	100.0
Manassas Park	2	2					0.0	0.0	
District 9	346	276	70	252	196	56	72.8	71.0	80.0
Culpeper	83	64	19	58	44	14	69.9	68.6	73.7
Fauquier	115	92	23	86	68	18	74.8	73.9	78.3
Madison	36	26	10	27	19	8	75.0	73.1	80.0
Orange	92	78	14	66	53	13	71.7	67.9	92.9
Rappahannock	20	16	4	15	12	3	75.0	75.0	75.0
District 10	581	440	141	461	343	118	79.3	78.0	83.7
Albemarle	292	240	52	243	200	43	83.2	83.3	82.7
Fluvanna	35	22	13	20	11	9	57.1	50.0	69.2
Greene	21	19	2	14	13	1	66.7	68.4	50.0
Louisa	67	40	27	50	27	23	74.6	67.5	85.2
Nelson	35	28	7	27	20	7	77.1	71.4	100.0
Charlottesville	131	91	40	107	72	35	81.7	79.1	87.5
District 11	738	574	164	572	443	129	77.5	77.2	78.7
Amherst	115	87	28	83	59	24	72.2	67.8	85.7
Appomattox	37	30	7	30	24	6	81.1	80.0	85.7
Bedford	90	76	14	66	55	11	73.3	72.4	78.6
Campbell	122	96	26	95	73	22	77.9	76.0	84.6
Bedford City	21	15	6	17	12	5	81.0	80.0	83.3
Lynchburg	353	270	83	281	220	61	79.6	81.5	73.5

(continued)

TABLE 29 - INDUCED ABORTIONS BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE
BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

Planning District/ City or County	All Induced Abortions			Illegitimate			Percent Illegitimate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	28,492	19,642	8,850	22,021	15,058	6,963	77.3	76.7	78.7
District 12	694	433	261	519	322	197	74.6	74.4	75.5
Franklin	96	78	18	69	53	16	71.9	67.9	88.9
Henry	188	128	60	144	99	45	76.6	77.3	75.0
Patrick	19	17	2	16	15	1	84.2	88.2	50.0
Pittsylvania	173	89	84	119	65	54	68.8	73.0	64.3
Danville	137	65	72	110	48	62	80.3	73.8	86.1
Martinsville	81	56	25	61	42	19	75.3	75.0	76.0
District 13	351	138	213	232	87	145	66.1	63.0	66.1
Brunswick	70	20	50	43	14	29	61.4	70.0	58.0
Halifax	151	63	88	106	44	62	70.2	69.8	70.5
Mecklenburg	105	40	65	67	22	45	63.8	55.0	69.2
South Boston	25	15	10	16	7	9	64.0	46.7	90.0
District 14	409	183	226	202	131	71	73.8	71.6	75.7
Amelia	48	18	30	31	11	20	64.6	61.1	66.7
Buckingham	31	13	18	22	10	12	71.0	76.9	66.7
Charlotte	46	18	28	34	11	23	73.9	72.2	75.0
Cumberland	22	8	14	15	4	11	68.2	50.0	78.6
Lunenburg	61	21	40	44	12	32	72.1	57.1	80.0
Nottoway	82	39	43	62	26	36	75.6	66.7	83.7
Prince Edward	119	66	53	94	55	39	79.0	83.3	73.6
District 15	5,502	3,038	2,464	4,378	2,358	2,020	79.6	77.6	82.0
Charles City Co.	37	2	35	29	2	27	78.4	0.0	82.9
Chesterfield	850	702	148	632	528	104	74.4	75.2	70.3
Goochland	69	39	30	53	28	25	76.8	71.8	83.3
Manover	273	194	79	201	142	59	73.6	73.2	74.7
Henrico	1,485	1,072	413	1,118	839	279	75.3	78.3	67.6
New Kent	31	18	13	21	11	10	67.7	61.1	76.9
Powhatan	63	39	24	45	26	19	71.4	66.7	79.2
Richmond City	2,694	972	1,722	2,279	784	1,495	84.6	80.7	86.8
District 16	499	400	99	392	322	70	78.6	80.5	70.7
Caroline	86	38	48	57	24	33	66.3	63.2	68.5
King George	30	21	9	16	11	5	53.3	52.4	55.6
Spotsylvania	117	100	17	94	85	9	80.3	85.0	52.9
Stafford	154	140	14	125	112	13	81.2	80.0	92.9
Fredericksburg	112	101	11	100	90	10	89.3	82.1	90.8
District 17	162	83	79	130	67	63	80.2	80.7	79.7
Lancaster	34	22	12	25	17	8	73.5	77.3	66.7
Northumberland	37	20	17	30	15	15	81.1	75.0	88.2
Richmond	30	18	12	25	15	10	83.3	83.3	83.3
Westmoreland	61	23	38	50	20	30	82.0	87.0	78.9
District 18	269	137	132	202	97	105	75.1	70.8	79.2
Essex	68	32	36	47	22	25	69.1	68.8	69.4
Gloucester	64	36	28	48	24	24	75.0	66.7	85.7
King and Queen	23	8	15	15	4	11	65.2	50.0	73.3
King William	44	23	21	38	18	20	86.4	78.3	95.2
Mathews	31	19	12	29	18	11	93.5	94.7	91.7
Middlesex	39	19	20	25	11	14	64.1	57.2	70.0
District 19	1,052	457	625	848	354	494	78.4	77.5	79.0
Dinwiddie	95	39	56	69	27	42	72.6	69.2	75.0
Greensville	58	19	39	44	11	33	75.9	57.9	84.6
Prince George	135	78	57	102	62	40	75.6	79.5	70.2
Surry	24	10	14	17	6	11	70.8	60.0	78.6
Sussex	68	14	54	51	9	42	75.0	64.3	77.8
Colonial Heights	91	88	3	72	72	0	79.1	81.8	0.0
Emporia	6	1	5	5	1	4	83.3	100.0	80.0
Hopewell	163	108	55	134	87	47	82.2	80.6	85.5
Petersburg	442	100	342	354	79	275	80.1	79.0	80.4
District 20	5,836	3,633	2,203	4,491	2,772	1,719	77.0	75.3	78.0
Isle of Wight	70	32	38	48	16	32	68.6	50.0	84.2
Southampton	66	27	39	54	22	32	81.8	81.5	82.1
Chesapeake	654	384	270	495	289	206	75.7	75.3	76.3
Franklin City	35	13	22	28	10	18	80.0	76.9	81.6
Norfolk	2,116	1,139	977	1,639	852	787	77.5	74.8	80.6
Portsmouth	773	323	450	603	252	351	78.0	78.0	78.0
Suffolk	262	109	153	194	76	118	74.0	69.7	77.1
Virginia Beach	1,860	1,606	254	1,430	1,255	175	76.9	76.1	68.8
District 21	2,393	1,429	964	1,824	1,081	743	76.6	75.6	78.1
James City Co.	64	43	21	53	39	14	82.8	90.7	66.7
York	147	113	34	110	83	27	74.8	73.5	79.4
Hampton	947	518	429	735	384	351	77.6	74.1	81.8
Newport News	1,040	608	432	761	445	316	73.2	73.2	73.1
Poquoson	13	13	0	12	12	0	92.3	92.3	0.0
Williamsburg	182	134	48	163	118	45	89.6	88.1	83.8
District 22	162	84	78	118	56	62	72.8	66.7	78.2
Accomack	110	59	51	79	37	42	71.8	62.7	82.4
Northampton	52	25	27	39	19	20	75.0	75.0	74.1
Unknown	17	10	7	11	6	5			

TABLE 30
RESIDENT INDUCED ABORTIONS BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978

Planning District/ City or County	Total	Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unk.
STATE OF VIRGINIA	28,492	378	9,319	9,850	4,813	2,534	1,199	331	30	38
District 1	72		22	27	15	6	1	1		
Lee	10		2	5	1	1		1		
Scott	5			1	4					
Wise	48		16	18	10	3	1			
Norton	9		4	3	2					
District 2	101	1	35	35	19	5	2	3		1
Buchanan	20		7	7	4		2			
Dickenson	17		7	5	3	1		1		
Russell	10		3	5	2					
Tazewell	54	1	18	18	10	4		2		1
District 3	229	2	125	76	58	37	23	8		
Bland	8		6			1	1			
Carroll	48		25	11	6	5		1		
Grayson	22		6	5	6	2	2			
Smyth	69	1	22	19	12	8	4	3		
Washington	64	1	25	13	9	6	8	2		
Wythe	71		19	15	19	10	7	1		
Bristol	28		14	9	3	2				
Galax	19		8	4	3	3	1			
District 4	744	2	240	349	82	42	17	5	1	1
Floyd	28		11	8	6	2		1		
Giles	58	1	9	27	10	9	2			
Montgomery	430	3	134	219	44	21	6	2		1
Pulaski	95	2	33	31	14	7	5	2	1	
Radford	133	1	53	64	8	3	4			
District 5	1,193	21	419	378	199	97	63	14	1	1
Alleghany	33	2	11	12	5	2	1			
Botetourt	86	1	31	22	6	12	11	3		
Craig	5	1	1		2		1			
Roanoke	355	5	125	103	64	35	20	3		
Clifton Forge	14		6	2	2	2	2			
Covington	24	1	15	3	3		2			
Roanoke City	569	11	182	204	99	39	26	6	1	1
Salem	107		48	32	18	7		2		
District 6	621	4	255	219	28	38	20	5	2	
Augusta	226	2	96	67	34	18	5	4		
Bath	18		7	6	3	1				
Highland	6		1	4	1					
Rockbridge	69		36	17	10	3	2		1	
Rockingham	164	1	63	64	19	10	7			
Buena Vista	24		11	9	2	2				
Harrisonburg	53		16	32	1	1	2		1	
Lexington	12		4	5	2		1			
Staunton	24		9	9	4		1	1		
Waynesboro	25	1	12	6	2	3	1			
District 7	296	5	104	100	53	20	12	1		1
Clarke	21	1	9	4	4	1	1	1		
Frederick	93	1	38	33	12	7	2			
Page	35	1	10	14	5	2	3			
Shenandoah	54		17	18	13	5	1			
Warren	66	1	26	19	12	4	3			1
Winchester	27	1	4	12	7	1	2			
District 8	6,095	61	2,049	1,979	987	624	289	83	2	16
Arlington	741	5	173	259	171	93	33	7		
Fairfax	3,389	24	1,220	1,067	489	340	185	51	3	10
Loudoun	277	8	102	76	41	33	8	7	2	
Prince William	787	12	325	245	90	68	31	13	1	2
Alexandria	687	11	162	248	162	72	24	14		4
Fairfax City	111		44	41	14	8	2	1	1	
Falls Church	72		15	28	16	9				
Manassas	29	1	8	14	4		2			
Manassas Park	2			1		1				
District 9	346	6	131	108	53	26	19	2		1
Culpeper	83	1	37	19	16	5	4			1
Fauquier	115	2	45	35	13	12	7	1		
Madison	36	2	13	13	5	2	1			
Orange	92	1	31	33	15	6	6			
Rappahannock	20		5	8	4	1	1	1		
District 10	581	5	191	191	105	49	23	4	1	2
Albemarle	292	2	97	100	56	22	13	2		
Fluvanna	35		10	13	4	5	3			
Greene	21		8	4	5	4				
Louisa	67	2	21	20	5	6	11	1		1
Nelson	35		15	8	10	2				
Charlottesville	131	1	40	46	25	10	6	1	1	1
District 11	738	2	265	234	120	69	32	11		
Amherst	115		38	41	17	10	6	3		
Appomattox	37	1	20	8	3	5				
Bedford	90	3	40	20	14	7	5	1		
Campbell	122		52	31	22	8	8	1		
Bedford City	21		9	8	2	2				
Lynchburg	353	3	106	126	62	37	13	6		

(continued)

TABLE 30
RESIDENT INDUCED ABORTIONS BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

Planning District/ City or County	Total	Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unk.
STATE OF VIRGINIA	28,492	378	9,319	9,850	4,813	2,534	1,199	331	30	38
District 12	694	11	275	215	103	48	29	11		2
Franklin	96	1	41	29	12	3	7	2		1
Henry	188	4	83	55	30	10	4	2		
Patrick	19	1	9	4	3	2				
Pittsylvania	173	3	60	65	23	12	6	4		
Danville	137	1	47	43	26	12	5	2		1
Martinsville	81	1	35	19	9	9	7	1		
District 13	351	6	127	102	47	43	17	8		1
Brunswick	70	1	26	17	10	10	4	2		
Halifax	151	2	54	44	23	17	9	1		1
Mecklenburg	105	2	39	33	13	13	2	3		
South Boston	25	1	8	8	1	3	2	2		
District 14	409	6	130	140	65	36	26	3	2	1
Amelia	48	1	19	12	7	4	4			1
Buckingham	31	1	7	11	7	2	3			
Charlotte	46	1	12	17	6	3	5	1	1	
Cumberland	22		5	9	5	1	1	1		
Lunenburg	61		17	23	7	9	4	1		
Nottoway	82	2	24	27	17	7	5			
Prince Edward	119	1	46	41	16	10	4		1	
District 15	5,502	70	1,577	1,957	1,082	532	213	62	2	2
Charles City Co.	37		9	14	6	4	3	1		
Chesterfield	850	12	326	226	145	85	37	18	1	
Goochland	69		20	25	12	5	5	2		
Hanover	273	2	105	85	37	27	11	5	1	
Henrico	1,485	12	455	492	269	165	71	18	2	1
New Kent	31	1	9	6	8	5	2			
Powhatan	63		22	18	14	9				
Richmond City	2,694	43	631	1,091	591	232	84	18	3	1
District 16	499	9	174	187	64	27	22	6		
Caroline	86	1	33	28	9	5	7	3		
King George	30		13	6	6	3	2			
Spotsylvania	117	3	44	44	12	8	4	2		
Stafford	154	5	49	59	21	16	3	1		
Fredericksburg	112		35	50	16	5	6			
District 17	162	6	53	55	28	10	5	4	1	
Lancaster	34	1	7	13	7	1	2	2		
Northumberland	37	2	12	14	4	3	2			
Richmond	30	1	11	11	4	2	1	1		
Westmoreland	61	2	23	17	13	4	1	1		
District 18	269	9	89	86	49	23	10	2		
Essex	68	2	20	21	16	8	1			
Gloucester	64	3	23	18	8	8	4			
King and Queen	23		6	8	7	1	1			
King William	44		16	15	5	5	3			
Mathews	31	2	14	9	5	1				
Middlesex	39	2	10	15	8		1	3		
District 19	1,082	17	342	377	187	101	46	8	2	2
Dinwiddie	95	4	28	33	17	10	2			1
Greensville	58	1	19	20	13	3	2			
Prince George	135		54	44	17	13	6	1		
Surry	24	1	7	9	2	3	1		1	
Sussex	68		25	20	14	3	5	1		
Colonial Heights	91		32	23	15	13	7	1		
Emporia	6		3	1		2				
Hopewell	163	4	53	57	30	14	4		1	
Petersburg	442	7	121	170	79	40	19	5		1
District 20	5,836	90	1,870	2,096	1,009	486	221	56	2	6
Isle of Wight	70	4	17	21	13	8	6	1		
Southampton	66	4	29	17	8	5	1	2		
Chesapeake	654	14	239	211	90	66	23	9		2
Franklin City	35	1	15	13	5	1				
Norfolk	2,116	40	625	829	379	159	65	16	1	2
Portsmouth	773	7	226	300	140	59	34	7		
Suffolk	262	6	80	79	43	26	22	6		
Virginia Beach	1,860	14	639	626	331	162	70	15	1	2
District 21	2,393	28	795	874	380	190	90	31	4	1
James City Co.	64	2	27	22	4	5	4			
York	147	3	71	31	17	16	8		1	
Hampton	947	9	317	342	146	71	42	18	2	
Newport News	1,040	11	312	405	183	87	30	10	1	1
Poquoson	13		7	3	3					
Williamsburg	182	3	61	71	27	11	6	3		
District 22	162	2	46	57	27	15	8	2		
Accomack	110	5	34	39	18	8	6			
Northampton	52	2	12	18	9	7	2	2		
Unknown	17		5	8	3		1			

TABLE 31
RESIDENT NATURAL FETAL DEATHS, LENGTH OF GESTATION BY RACE BY CAUSE OF DEATH, VIRGINIA, 1978

Causes of Natural Fetal Deaths	Total			Less than 20 Weeks				Length of Gestation				28 Weeks and Over		
	Total	White	Nonwh	Total	White	Nonwh	Total	Total	White	Nonwh	Total	White	Nonwh	Total
ALL CAUSES	6,131	4,390	1,741	5,243	3,830	1,413	390	224	166	44	25	336	162	
Causes and Conditions in Mother	518	335	183	429	277	152	45	33	12	12	44	25	19	
Chronic circulatory and genitourinary (760)	2	1	1	1	1						1		1	
Diabetes mellitus (7611)	16	10	6	5	2	3					11	8	3	
Other diseases (7610,7612-7619)	18	15	3	8	8		4	4			6	3	3	
Pre-eclampsia and eclampsia of pregnancy (7621-7622)	16	5	11	4		4					11	5	6	
Other toxemias (7620,7623-7629)	9	5	4	1	1		2	1	1	1	6	3	3	
Ante- and intrapartum infection (763)	5	5		2	2		3	3						
Incompetent cervix (7690)	13	7	6	3		3	10	7	3					
Premature rupture of membranes (7691)	55	35	20	22	12	10	25	18	7	3	8	5	3	
Ectopic pregnancy (7693)	373	247	126	373	247	126								
Other complications (7692,7694-7699)	11	5	6	10	4	6					1	1		
Causes in Fetus, Placenta and Cord	640	453	187	185	147	38	148	81	67		307	225	82	
Placenta (770)	220	172	48	87	78	9	43	27	16		90	67	23	
Umbilical cord (771)	83	53	30	14	8	6	9	5	4		60	40	20	
Hemolytic disease (774-775)	3	3		3										
Anoxic and hypoxic disease (776)	187	129	58	48	35	13	40	25	15		99	69	30	
Immaturity (777)	85	44	41	24	15	9	53	23	30		8	6	2	
Other conditions (778)	62	52	10	9	8	1	3	1	2		50	43	7	
Abortions: (excluding induced abortions)	3,889	2,811	1,078	3,747	2,732	1,015	126	70	56		16	9	7	
Spontaneous - intrauterine device (7731)	17	15	2	14	13	1	2	2			1	1	1	
Spontaneous NOS (7730)	3,848	2,781	1,067	3,711	2,704	1,007	123	68	55		14	9	5	
Abortion or miscarriage NOS (7739)	24	15	9	22	15	7	1	1	1		1	1	1	
111-defined and unknown causes (779)	1,084	791	293	882	674	208	71	40	31		131	77	54	

TABLE 32 - NEONATAL DEATHS WITH RATES PER 1,000 LIVE BIRTHS BY RACE BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978

Planning District/ City or County	Number			Rate			Planning District/ City or County	Number			Rate		
	Total	White	Nonwh	Total	White	Nonwh		Total	White	Nonwh	Total	White	Nonwh
STATE OF VIRGINIA	693	423	270	9.4	7.7	14.7							
District 1	20	18	2	13.0	11.8	100.0	District 12	30	15	15	10.0	7.2	15.9
Lee	1	1		2.7	2.7		Franklin	1	1		2.4	2.5	0.0
Scott	1	1		3.6	3.6	0.0	Henry	2	1	1	2.7	1.9	5.0
Wise	14	13	1	17.1	16.2	62.5	Patrick	3	2	1	17.4	13.0	55.6
Norton	4	3	1	56.3	44.1	333.3	Pittsylvania	15	8	7	17.4	15.4	20.6
District 2	28	28		13.1	13.3	0.0	Danville	8	3	5	13.5	8.4	21.3
Buchanan	17	17		26.4	26.5	0.0	Martinsville	1	1		4.5	0.0	12.7
Dickenson				0.0	0.0	0.0	District 13	17	8	9	15.1	14.5	15.6
Russell	6	6		14.2	14.3	0.0	Brunswick	3	2	1	14.4	24.7	7.8
Tazewell	5	5		6.4	6.6	0.0	Halifax	3	3		7.5	14.4	0.0
District 3	26	24	2	12.2	11.6	31.7	Mecklenburg	8	3	5	18.3	13.6	23.0
Bland	1	1		17.2	17.5	0.0	South Boston	3		3	37.5	0.0	75.0
Carroll				0.0	0.0	0.0	District 14	2		2	8.1	0.0	16.5
Grayson	1	1		6.1	6.4	0.0	Amelia				0.0	0.0	0.0
Smyth	4	3	1	9.6	7.4	100.0	Buckingham				0.0	0.0	0.0
Washington	5	5		9.0	9.0	0.0	Charlotte				0.0	0.0	0.0
Wythe	9	9		26.9	27.9	0.0	Cumberland	4		4	44.9	0.0	90.9
Bristol	6	5	1	25.0	23.1	41.7	Lunenburg	2		2	14.4	0.0	25.3
Galax				0.0	0.0	0.0	Nottoway				0.0	0.0	0.0
District 4	17	16	1	11.1	11.0	14.7	Prince Edward	3		3	12.6	0.0	22.9
Floyd				0.0	0.0	0.0	District 15	88	48	40	10.8	9.1	13.8
Giles	4	3	1	18.0	13.9	166.7	Charles City Co.	1		1	10.9	0.0	13.3
Montgomery	6	6		9.5	9.9	0.0	Chesterfield	17	14	3	9.6	8.7	17.1
Pulaski	6	6		13.1	13.9	0.0	Goochland				0.0	0.0	0.0
Radford	1	1		10.2	11.4	0.0	Hanover	6	4	2	10.1	8.2	19.2
District 5	27	21	6	9.2	8.3	14.4	Henrico	21	16	5	9.7	9.5	10.3
Alleghany	3	3		16.0	16.7	0.0	New Kent	1		1	8.4	0.0	26.3
Botetourt	1	1		4.0	4.1	0.0	Powhatan	3	3		21.9	24.4	0.0
Craig				0.0	0.0		Richmond City	39	11	28	12.4	9.2	14.3
Roanoke	5	5		7.2	7.4	0.0	District 16	20	13	7	11.8	9.3	20.4
Clifton Forge				0.0	0.0	0.0	Caroline	5	3	2	20.2	19.9	20.8
Covington	1	1		8.0	8.9	0.0	King George				0.0	0.0	0.0
Roanoke City	15	10	5	11.2	10.1	14.2	Spotsylvania	3	2	1	5.3	4.3	10.0
Salem	2	1	1	8.2	4.4	62.5	Stafford	8	5	3	13.6	9.1	73.2
District 6	16	15	1	6.5	6.4	8.7	Fredericksburg	4	3	1	20.9	23.4	15.8
Augusta	5	5		7.9	8.2	0.0	District 17	6	2	4	12.0	7.0	16.7
Bath	1	1		13.5	14.5	0.0	Lancaster				0.0	0.0	0.0
Highland				0.0	0.0		Northumberland	1		1	9.0	0.0	22.2
Rockbridge	1	1		5.3	5.4	0.0	Richmond	2	1	1	20.8	16.1	39.4
Rockingham	4	4		5.1	5.1	0.0	Westmoreland	3	1	2	17.1	11.5	22.7
Buena Vista				0.0	0.0	0.0	District 18	10	5	5	14.5	10.7	22.6
Harrisonburg	1	1		5.4	5.7	0.0	Essex	2	1	1	18.5	16.9	20.4
Lexington				0.0	0.0	0.0	Gloucester	4	3	1	16.4	14.5	27.0
Staunton	4	3	1	17.2	14.9	33.3	King and Queen				0.0	0.0	0.0
Waynesboro				0.0	0.0	0.0	King William	3	1	2	24.6	13.0	44.4
District 7	22	19	3	12.5	11.4	31.6	Mathews				0.0	0.0	0.0
Clarke	3	3		26.1	33.7	0.0	Middlesex	1		1	13.7	0.0	37.0
Frederick	6	5	1	11.4	9.7	71.4	District 19	19	8	11	8.4	6.7	10.3
Page	4	4		16.2	16.5	0.0	Dinwiddie				0.0	0.0	0.0
Shenandoah				0.0	0.0	0.0	Greensville	2		2	12.8	0.0	18.3
Warren	2	2		7.0	7.3	0.0	Prince George	5	4	1	15.1	17.8	9.3
Winchester	7	5	2	26.2	21.5	58.8	Surry				0.0	0.0	0.0
District 8	92	70	22	6.3	5.6	9.9	Sussex	1		1	6.7	0.0	9.7
Arlington	11	10	1	6.1	7.1	2.5	Colonial Heights	3	3		17.5	18.3	0.0
Fairfax	40	32	8	5.5	5.1	8.8	Emporia				0.0	0.0	0.0
Loudoun	7	5	2	8.9	7.0	29.9	Hopewell				0.0	0.0	0.0
Prince William	20	18	2	7.6	7.6	7.3	Petersburg	8	1	7	11.3	3.9	15.5
Alexandria	11	3	8	7.8	3.3	15.8	District 20	147	66	81	10.6	7.4	16.4
Fairfax City	1	1		3.9	4.2	0.0	Isle of Wight	7	2	5	24.1	12.5	38.2
Falls Church				0.0	0.0	0.0	Southampton	4	1	3	17.2	8.3	27.0
Manassas				0.0	0.0	0.0	Chesapeake	24	8	16	13.3	6.8	25.7
Manassas Park	2	1	1	16.9	9.1	125.0	Franklin City	2		2	17.4	0.0	29.9
District 9	5	4	1	3.9	3.9	3.7	Norfolk	45	18	27	9.1	6.2	13.2
Culpeper	2	1	1	5.8	3.8	12.7	Portsmouth	22	6	16	11.8	6.7	16.7
Fauquier				0.0	0.0	0.0	Suffolk	7	3	4	9.5	9.7	9.4
Madison				0.0	0.0	0.0	Virginia Beach	36	28	8	9.3	8.5	14.1
Orange	3	3		11.5	15.4	0.0	District 21	45	22	23	8.4	6.3	12.4
Rappahannock				0.0	0.0	0.0	James City Co.	2	1	1	7.7	5.6	12.0
District 10	21	10	11	11.2	7.2	22.8	York	3	2	1	11.3	9.3	19.2
Albemarle	3	2	1	4.3	3.4	10.0	Hampton	15	8	7	7.3	6.2	9.4
Fluvanna	2	1	1	12.7	10.6	15.9	Newport News	25	11	14	9.5	6.6	14.5
Greene	2	2		18.7	20.4	0.0	Poquoson				0.0	0.0	0.0
Louisa	2		2	8.8	0.0	23.0	Williamsburg				0.0	0.0	0.0
Nelson	5	2	3	27.9	15.9	56.6	District 22	4		4	5.9	0.0	10.6
Charlottesville	7	3	4	13.8	8.9	23.4	Accomack	2		2	4.6	0.0	8.7
District 11	24	11	13	9.5	5.8	20.8	Northampton	2		2	8.1	0.0	13.5
Amherst	2	2		5.6	7.0	0.0							
Appomattox	2	1	1	12.7	8.5	25.6							
Bedford	3		3	6.5	0.0	47.6							
Campbell	7	5	2	11.4	10.0	17.4							
Bedford City	2	1	1	37.7	24.4	83.3							
Lynchburg	8	2	6	9.1	3.6	18.6							

TABLE 33 - INFANT DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE
PER 1,000 LIVE BIRTHS BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1978

Planning District/ City or County	DEATHS UNDER ONE YEAR								
	PLACE OF DEATH			PLACE OF RESIDENCE					
	Total	White	Nonwhite	Number			Rate		
STATE OF VIRGINIA	965	589	376	989	611	378	13.5	11.1	20.5
<u>District 1</u>	<u>20</u>	<u>18</u>	<u>2</u>	<u>27</u>	<u>24</u>	<u>3</u>	<u>17.5</u>	<u>15.8</u>	<u>150.0</u>
Lee	1	1		4	4		10.6	10.6	
Scott				3	3		10.8	10.9	0.0
Wise	9	8	1	16	14	2	19.6	17.5	125.0
Norton	10	9	1	4	3	1	56.3	44.1	333.3
<u>District 2</u>	<u>25</u>	<u>25</u>		<u>39</u>	<u>39</u>		<u>18.2</u>	<u>18.5</u>	<u>0.0</u>
Buchanan	12	12		21	21		32.6	32.7	0.0
Dickenson	3	3		3	3		10.3	10.3	0.0
Russell	1	1		9	9		21.3	21.4	0.0
Tazewell	9	9		6	6		7.7	8.0	0.0
<u>District 3</u>	<u>20</u>	<u>20</u>		<u>27</u>	<u>35</u>	<u>2</u>	<u>17.4</u>	<u>16.9</u>	<u>31.7</u>
Bland				1	1		17.2	17.5	0.0
Carroll				2	2		7.0	7.0	0.0
Grayson				2	2		12.1	12.8	0.0
Smyth	3	3		7	6	1	16.8	14.7	100.0
Washington	8	8		8	8		14.4	14.5	0.0
Wythe	6	6		10	10		29.9	31.0	0.0
Bristol				7	6	1	29.2	27.8	41.7
Galax	3	3					0.0	0.0	0.0
<u>District 4</u>	<u>14</u>	<u>14</u>		<u>23</u>	<u>22</u>	<u>1</u>	<u>15.1</u>	<u>15.1</u>	<u>14.7</u>
Floyd							0.0	0.0	0.0
Giles	3	3		7	6	1	31.5	27.8	166.7
Montgomery	6	6		7	7		11.1	11.5	0.0
Pulaski	2	2		6	6		13.1	13.9	0.0
Radford	3	3		3	3		30.6	34.1	0.0
<u>District 5</u>	<u>39</u>	<u>34</u>	<u>5</u>	<u>34</u>	<u>27</u>	<u>7</u>	<u>11.5</u>	<u>10.7</u>	<u>16.8</u>
Alleghany	2	2		3	3		16.0	16.7	0.0
Botetourt				2	2		8.0	8.2	0.0
Craig							0.0	0.0	
Roanoke	3	3		7	7		10.1	10.4	0.0
Clifton Forge	1	1					0.0	0.0	0.0
Covington				1	1		8.0	8.9	0.0
Roanoke City	29	26	3	19	13	6	14.2	13.2	17.1
Salem	4	2	2	2	1	1	8.2	4.4	62.5
<u>District 6</u>	<u>15</u>	<u>13</u>	<u>2</u>	<u>21</u>	<u>20</u>	<u>1</u>	<u>8.5</u>	<u>8.5</u>	<u>8.7</u>
Augusta	2	2		8	8		12.7	13.1	0.0
Bath				1	1		13.5	14.5	0.0
Highland							0.0	0.0	
Rockbridge	1	1		2	2		10.6	10.8	0.0
Rockingham				5	5		6.4	6.4	0.0
Buena Vista							0.0	0.0	0.0
Harrisonburg	7	6	1	1	1		5.4	5.7	0.0
Lexington							0.0	0.0	0.0
Staunton	2	1	1	4	3	1	17.2	14.9	33.3
Waynesboro	3	3					0.0	0.0	0.0
<u>District 7</u>	<u>25</u>	<u>23</u>	<u>2</u>	<u>32</u>	<u>29</u>	<u>3</u>	<u>18.2</u>	<u>17.4</u>	<u>31.6</u>
Clarke				3	3		26.1	33.7	0.0
Frederick				8	7	1	15.2	13.6	71.4
Page	3	3		5	5		20.2	20.7	0.0
Shenandoah	1	1		3	3		9.4	9.5	0.0
Warren	3	3		5	5		17.5	18.3	0.0
Winchester	18	16	2	8	6	2	30.0	25.8	58.8
<u>District 8</u>	<u>91</u>	<u>69</u>	<u>22</u>	<u>128</u>	<u>100</u>	<u>28</u>	<u>8.7</u>	<u>8.1</u>	<u>12.6</u>
Arlington	4	3	1	14	12	2	7.7	8.5	5.0
Fairfax	47	41	6	59	49	10	8.2	7.8	11.0
Loudoun	5	4	1	9	7	2	11.5	9.7	29.9
Prince William	8	6	2	24	21	3	9.1	8.9	10.9
Alexandria	22	11	11	16	6	10	11.4	6.6	19.8
Fairfax City	1	1		2	2		7.8	8.4	0.0
Falls Church							0.0	0.0	0.0
Manassas	4	3	1	2	2		6.5	7.2	0.0
Manassas Park				2	1	1	16.9	9.1	125.0
<u>District 9</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>7</u>	<u>6</u>	<u>1</u>	<u>5.4</u>	<u>5.8</u>	<u>3.7</u>
Culpeper	1	1		3	2	1	8.7	7.5	12.7
Fauquier	1		1				0.0	0.0	0.0
Madison				1	1		7.0	8.9	0.0
Orange	1	1		3	3		11.5	15.4	0.0
Rappahannock							0.0	0.0	0.0
<u>District 10</u>	<u>80</u>	<u>60</u>	<u>20</u>	<u>27</u>	<u>13</u>	<u>14</u>	<u>14.4</u>	<u>9.3</u>	<u>29.0</u>
Albemarle	74	55	19	4	3	1	5.8	5.0	10.0
Fluvanna				3	1	2	19.1	10.6	31.7
Greene				2	2		18.7	20.4	0.0
Louisa				2		2	8.8	0.0	23.0
Nelson				5	2	3	27.9	15.9	56.6
Charlottesville	6	5	1	11	5	6	21.7	14.8	35.1
<u>District 11</u>	<u>43</u>	<u>24</u>	<u>19</u>	<u>36</u>	<u>19</u>	<u>17</u>	<u>14.3</u>	<u>10.0</u>	<u>27.2</u>
Amherst	1		1	5	3	2	14.0	10.5	27.8
Appomattox				2	1	1	12.7	8.5	25.4
Bedford				4	1	3	8.6	2.5	47.6
Campbell				8	6	2	13.1	12.0	17.4
Bedford City	3		3	2	1	1	37.7	24.4	83.3
Lynchburg	39	24	15	15	7	8	17.0	12.6	24.8

TABLE 33 - INFANT DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE PER 1,000 LIVE BIRTHS BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1978 (continued)

Planning District/ City or County	DEATHS UNDER ONE YEAR								
	PLACE OF DEATH			PLACE OF RESIDENCE					
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	965	589	376	989	611	378	13.5	11.1	20.5
District 12	39	17	22	45	21	24	15.0	10.2	25.5
Franklin	4	2	2	5	3	2	11.9	8.5	29.9
Henry	1		1	6	2	4	8.2	3.8	19.8
Patrick	1	1		3	2	1	17.4	13.0	55.6
Pittsylvania	2	1	1	19	10	9	22.1	19.2	26.5
Danville	23	10	13	10	4	6	16.9	11.2	25.5
Martinsville	8	3	5	2		2	9.0	0.0	25.3
District 13	13	2	11	24	10	14	21.3	18.1	24.2
Brunswick	1		1	5	2	3	23.9	24.7	23.4
Halifax				5	4	1	12.4	19.1	5.2
Mecklenburg	8	1	7	11	4	7	25.1	18.1	32.3
South Boston	4	1	3	3		3	37.5	0.0	75.0
District 14	6	2	4	13	3	10	11.8	5.4	18.3
Amelia							0.0	0.0	0.0
Buckingham							0.0	0.0	0.0
Charlotte							0.0	0.0	0.0
Cumberland				5	1	4	56.2	22.2	90.9
Lunenburg				3	1	2	21.6	16.7	25.3
Nottoway							0.0	0.0	0.0
Prince Edward	6	2	4	5	1	4	21.0	9.3	30.5
District 15	182	99	83	118	66	52	14.5	12.5	17.9
Charles City Co.				1		1	10.9	0.0	13.3
Chesterfield	1	1		22	19	3	12.4	11.9	17.1
Goochland							0.0	0.0	0.0
Hanover	2	1	1	8	4	4	13.5	8.2	38.5
Henrico	18	12	6	30	24	6	13.8	14.2	12.3
New Kent				1		1	8.4	0.0	26.3
Powhatan				5	5		36.5	40.7	0.0
Richmond City	161	85	76	51	14	37	16.3	11.9	18.9
District 16	12	9	3	29	19	10	16.7	13.6	29.2
Caroline				6	4	2	24.3	26.5	20.8
King George							0.0	0.0	0.0
Spotsylvania				6	3	3	10.7	6.5	30.0
Stafford				13	9	4	22.1	16.5	97.6
Fredericksburg	12	9	3	4	3	1	20.9	23.4	15.9
District 17	2	1	1	8	2	5	16.0	10.5	23.4
Lancaster	2	1	1				0.0	0.0	0.0
Northumberland				2		2	18.0	0.0	44.4
Richmond				2	1	1	20.8	16.1	29.4
Westmoreland				4	2	2	22.9	23.0	22.7
District 18	1		1	11	5	6	16.0	10.7	27.1
Essex				2	1	1	18.5	16.9	20.4
Gloucester				4	3	1	16.4	14.5	27.0
King and Queen							0.0	0.0	0.0
King William	1		1	4	1	3	32.8	13.0	66.7
Mathews							0.0	0.0	0.0
Middlesex				1		1	13.7	0.0	37.0
District 19	15	6	9	25	10	15	11.1	8.4	14.0
Dinwiddie							0.0	0.0	0.0
Greensville				3		3	19.2	0.0	27.5
Prince George	1	1		6	5	1	18.1	22.2	9.3
Surry	1		1	1		1	12.3	0.0	17.9
Sussex	1		1	3		3	20.1	0.0	29.1
Colonial Heights	1	1		4	4		23.4	24.4	0.0
Emporia	3	1	2				0.0	0.0	0.0
Hopewell	1	1					0.0	0.0	0.0
Petersburg	7	2	5	8	1	7	11.3	3.9	15.5
District 20	272	132	140	235	106	129	17.0	11.9	26.1
Isle of Wight				10	3	7	34.4	18.8	53.4
Southampton				6	2	4	25.9	16.5	36.0
Chesapeake	4	2	2	33	15	18	18.3	12.7	28.9
Franklin City	4	1	3	4		4	34.8	0.0	59.7
Norfolk	179	85	94	81	32	49	16.3	11.0	23.9
Portsmouth	69	35	34	35	11	24	18.8	12.2	25.0
Suffolk	7	2	5	14	4	10	19.0	12.9	23.5
Virginia Beach	9	7	2	52	39	13	13.5	11.9	22.9
District 21	45	19	26	65	34	31	12.1	9.7	16.5
James City Co.				2	1	1	7.7	5.6	12.0
York				4	3	1	15.0	14.0	19.2
Hampton	16	6	10	24	14	10	11.7	10.8	13.4
Newport News	26	11	15	35	16	19	13.3	9.6	19.7
Poquoson							0.0	0.0	0.0
Williamsburg	3	2	1				0.0	0.0	0.0
District 22	2		2	5		5	7.3	0.0	13.2
Accomack				2		2	4.6	0.0	8.7
Northampton	3		3	3		3	12.1	0.0	20.3

TABLE 34 - PERINATAL MORTALITY RATE WITH INFANT DEATHS UNDER ONE WEEK AND FETAL DEATHS 28 WEEKS AND OVER GESTATION, BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978

Planning District/ City or County	Infant Deaths Under One Week			Fetal Deaths 28 Weeks and Over			Perinatal Rate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	613	366	247	498	336	162	15.0	12.7	22.0
District 1	16	14	2	8	8		15.5	14.4	100.0
Lee	1	1		3	3		10.6	10.6	
Scott							0.0	0.0	0.0
Wise	11	10	1	5	5		19.4	18.6	62.5
Norton	4	3	1				56.3	44.1	333.3
District 2	26	26		17	17		19.9	20.3	0.0
Buchanan	17	17		9	9		39.8	39.9	0.0
Dickenson				3	3		10.2	10.2	0.0
Russell	4	4		1	1		11.8	11.9	0.0
Tazewell	5	5		4	4		11.4	11.9	0.0
District 3	24	22	2	11	11		16.4	15.9	31.7
Bland	1	1					17.2	17.5	0.0
Carroll				5	5		17.1	17.2	0.0
Grayson	1	1					6.1	6.4	0.0
Smyth	4	3	1				9.6	7.4	100.0
Washington	4	4		4	4		14.3	14.4	0.0
Wythe	9	9		1	1		29.8	30.9	0.0
Bristol	5	4	1	1	1		24.9	23.0	41.7
Galax							0.0	0.0	0.0
District 4	15	14	1	7	6	1	14.3	13.6	29.0
Floyd				2	2		16.4	17.1	0.0
Giles	4	3	1				18.0	13.9	166.7
Montgomery	6	6					9.5	9.9	0.0
Pulaski	5	5		3	3		17.4	18.4	0.0
Radford				2	1	1	20.0	11.2	90.9
District 5	23	17	6	24	21	3	15.8	14.9	21.4
Alleghany	3	3		2	2		26.5	27.5	0.0
Botetourt	1	1		4	4		19.8	20.2	0.0
Craig							0.0	0.0	
Roanoke	3	3		4	4		10.0	10.3	0.0
Clifton Forge							0.0	0.0	0.0
Covington	1	1					8.0	8.9	0.0
Roanoke City	13	8	5	11	8	3	17.8	16.1	22.6
Salem	2	1	1	3	3		20.3	17.4	62.5
District 6	14	13	1	13	13		10.9	11.0	8.7
Augusta	5	5		2	2		11.1	11.5	0.0
Bath							0.0	0.0	0.0
Highland							0.0	0.0	
Rockbridge	1	1		2	2		15.7	16.0	0.0
Rockingham	3	3		3	3		7.6	7.7	0.0
Buena Vista							0.0	0.0	0.0
Harrisonburg	1	1					5.4	5.7	0.0
Lexington							0.0	0.0	0.0
Staunton	4	3	1	3	3		29.8	29.3	33.3
Waynesboro				3	3		14.8	16.7	0.0
District 7	17	15	2	13	12	1	16.9	16.1	31.3
Clarke	3	3					26.1	33.7	0.0
Frederick	4	4		4	4		15.1	15.5	0.0
Page	2	2		2	2		16.1	16.4	0.0
Shenandoah				2	2		6.2	6.3	0.0
Warren	2	2		2	2		13.9	14.5	0.0
Winchester	6	4	2	3	2	1	33.3	25.5	85.7
District 8	80	62	18	80	62	18	10.9	9.9	16.0
Arlington	10	9	1	6	4	2	8.8	9.2	7.5
Fairfax	35	27	8	43	34	9	10.7	9.6	18.5
Loudoun	6	4	2	1	1		8.9	6.9	29.9
Prince William	19	17	2	18	14	4	13.9	13.0	21.5
Alexandria	7	3	4	10	7	3	12.0	11.0	13.8
Fairfax City	1	1		1	1		7.8	8.4	0.0
Falls Church							0.0	0.0	0.0
Manassas				1	1		3.2	3.6	0.0
Manassas Park	2	1	1				16.9	9.1	125.0
District 9	3	2	1	13	11	2	12.2	12.5	11.0
Culpeper	1		1	7	6	1	22.7	22.1	25.0
Fauquier				5	4	1	10.5	10.2	11.9
Madison							0.0	0.0	0.0
Orange	2	2		1	1		11.4	15.3	0.0
Rappahannock							0.0	0.0	0.0
District 10	17	7	10	13	8	5	15.9	10.7	30.7
Albemarle	2	1	1	2	2		5.7	5.0	10.0
Fluvanna	2	1	1	1	1		19.0	21.1	15.9
Greene	1	1		3	3		36.4	39.6	0.0
Louisa	2		2	3	2	1	21.6	14.0	34.1
Nelson	3	1	2	1		1	22.2	7.9	55.6
Charlottesville	7	3	4	3		3	19.6	8.9	40.2
District 11	23	10	13	26	15	11	19.2	13.1	37.8
Amherst	2	2		4	4		16.6	7.0	52.6
Appomattox	1		1	1		1	12.7	0.0	50.0
Bedford	3		3	4	4		15.0	9.9	47.6
Camobell	7	5	2	7	6	1	22.6	21.8	25.9
Bedford City	2	1	1	1	1		55.6	47.6	83.3
Lynchburg	8	2	6	9	4	5	19.1	10.7	33.5

(continued)

TABLE 34 - PERINATAL MORTALITY RATE WITH INFANT DEATHS UNDER ONE WEEK AND FETAL DEATHS 28 WEEKS AND OVER GESTATION, BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

Planning District/ City or County	Infant Deaths Under One Week			Fetal Deaths 28 Weeks and Over			Perinatal Rate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	613	366	247	498	336	162	15.0	12.7	22.0
District 12	28	14	14	26	17	9	17.9	14.9	24.2
Franklin	1	1					2.4	2.8	0.0
Henry	2	1	1	8	7	1	13.5	14.9	9.9
Patrick	3	2	1	2	2		28.7	25.6	55.6
Pittsylvania	15	8	7	9	5	4	27.6	24.8	32.0
Danville	6	2	4	6	3	3	20.1	13.9	29.4
Martinsville	1		1	1		1	9.0	0.0	25.0
District 13	16	8	8	11	6	5	23.7	25.1	22.3
Brunswick	3	2	1	1	1		19.0	36.6	7.8
Halifax	3	3		7	3	4	24.4	28.3	20.3
Mecklenburg	7	3	4	3	2	1	22.7	22.4	22.9
South Boston	3		3				37.5	0.0	75.0
District 14	2		2	2	4	5	16.2	7.1	25.4
Amelia				1	1		9.4	15.2	0.0
Buckingham				1	1		7.2	13.3	0.0
Charlotte				4		4	20.3	0.0	41.2
Cumberland	4		4				44.9	0.0	90.9
Lunenburg	2		2	2	1	1	28.4	16.4	37.5
Nottoway				1	1		4.9	9.2	0.0
Prince Edward	3		3				12.6	0.0	22.9
District 15	83	43	40	68	39	29	18.3	15.5	23.5
Charles City Co.	1		1	3		3	42.1	0.0	51.3
Chesterfield	14	11	3	15	13	2	16.2	14.9	28.2
Goochland							0.0	0.0	0.0
Hanover	6	4	2	6	6		20.1	20.2	19.2
Henrico	20	15	5	18	14	4	17.4	17.1	18.4
New Kent	1		1	1		1	16.7	0.0	51.3
Powhatan	3	3					21.9	24.4	0.0
Richmond City	38	10	28	25	6	19	19.9	13.5	23.8
District 16	19	12	7	6	4	2	14.3	11.4	26.1
Caroline	4	2	2	1		1	20.2	13.2	30.9
King George				2	1	1	13.0	9.1	22.7
Spotsylvania	3	2	1	2	2		8.9	8.6	10.0
Stafford	8	5	3				13.6	9.1	73.2
Fredericksburg	4	3	1	1	1		26.0	31.0	15.9
District 17	6	2	4	4	2	1	19.9	17.4	23.3
Lancaster				1		1	8.5	0.0	20.8
Northumberland	1		1	2	2		26.5	29.4	22.2
Richmond	2	1	1				20.8	16.1	29.4
Westmoreland	3	1	2	1	1		22.7	22.7	22.7
District 18	2	2	2	2	1	1	13.0	6.4	27.0
Essex	2	1	1				18.5	16.9	20.4
Gloucester	2	1	1	2	1	1	16.3	9.6	52.6
King and Queen							0.0	0.0	0.0
King William	2		2				16.4	0.0	44.4
Mathews							0.0	0.0	0.0
Middlesex	1		1				13.7	0.0	37.0
District 19	17	2	10	25	6	19	18.4	10.9	26.6
Dinwiddie				4	1	3	19.2	8.5	33.3
Greensville	2		2	3		3	31.4	0.0	44.6
Prince George	4	3	1	4	1	3	23.8	17.7	36.4
Surry							0.0	0.0	0.0
Sussex	1		1	2		2	19.9	0.0	28.6
Colonial Heights	3	3		1	1		23.3	24.2	0.0
Emporia							0.0	0.0	0.0
Hopewell				1		1	2.6	0.0	9.5
Petersburg	7	1	6	10	3	7	23.6	15.4	28.3
District 20	128	52	71	78	46	32	14.8	11.5	20.7
Isle of Wight	6	2	4	1	1		24.0	18.6	30.5
Southampton	4	1	3				17.2	8.3	27.0
Chesapeake	22	8	14	13	11	2	19.3	16.0	25.6
Franklin City	2		2				17.4	0.0	29.9
Norfolk	39	16	23	23	11	12	12.4	9.2	17.0
Portsmouth	22	6	16	11	5	6	17.6	12.2	22.8
Suffolk	4	2	2	12	5	7	21.4	22.2	20.8
Virginia Beach	29	22	7	18	13	5	12.1	10.6	21.0
District 21	39	19	20	35	21	14	13.7	11.4	17.9
James City Co.	2	1	1	3	1		19.0	11.2	35.3
York	3	2	1	1		1	15.0	9.3	37.7
Hampton	13	8	5	13	7	6	12.6	11.5	14.7
Newport News	21	8	13	17	12	5	14.3	11.9	18.5
Poquoson				1	1		11.2	11.8	0.0
Williamsburg							0.0	0.0	0.0
District 22	3		3	2	5	4	17.3	16.1	18.3
Accomack	1		1	7	4	3	18.1	19.0	17.2
Northampton	2		2	2	1	1	16.1	10.0	20.1

Perinatal rate = $\frac{\text{Infant Deaths Under One Week} + \text{Fetal Deaths 28 Weeks and Over}}{\text{Live Births} + \text{Fetal Deaths 28 Weeks and Over}} \times 1,000$

TABLE 35
IDENT INFANT DEATHS BY RACE BY SEX AND CAUSE OF DEATH WITH RATES PER 100,000 LIVE BIRTHS, VIRGINIA, 1978

CAUSE OF DEATH (Numbers refer to International Classification of Diseases, Adapted, 8th Revision)		Infant Deaths				Rates							
		Total		White		Nonwh		Total		White		Nonwh	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
STATE OF VIRGINIA		989	344	267	218	160		1,348.3	1,216.2	1,002.4	2,311.8	1,778.2	
Salmonella infection (003)		1	1					1.4	3.5	0.0	0.0	0.0	
Diarrheal disease (009)		14	1	3	7	3		19.1	3.5	11.3	74.2	33.3	
Meningococcal infections (036)		2	1			1		2.7	3.5	0.0	0.0	11.1	
Septicemia (038)		29	10	8	6	5		39.5	35.4	30.0	63.6	55.6	
Other bacterial diseases (039)		1	1					1.4	3.5	0.0	0.0	0.0	
Viral diseases (040-079)		3	2			1		4.1	7.1	0.0	0.0	11.1	
Diseases of the thyroid and other endocrine glands (240-258)		1		1				1.4	0.0	3.8	0.0	0.0	
Metabolic diseases (270-279)		3		1	1	1		4.1	0.0	3.8	10.6	11.1	
Diseases of the blood and blood forming organs (280-289)		2	1					2.7	3.5	0.0	10.6	0.0	
Meningitis (320)		10	5	2	2	1		13.6	17.7	7.5	21.2	11.1	
Other diseases of nervous system and sense organs (321-389)		17	6	8	2	1		23.2	21.2	30.0	21.2	11.1	
Diseases of the circulatory system (390-458)		28	6	9	8	5		38.2	21.2	33.8	84.8	55.6	
Influenza and pneumonia (470-486)		32	14	7	7	4		43.6	49.5	26.3	74.2	44.5	
Other diseases of the respiratory system (460-466,490-519)		8	4		2	2		10.9	14.1	0.0	21.2	22.2	
Diseases of the digestive system (520-577)		18	7	2	4	5		24.5	24.7	7.5	42.4	55.6	
Diseases of the genitourinary system (580-629)		4	3	1				5.5	10.6	3.8	0.0	0.0	
Diseases of the musculoskeletal system and connective tissue (710-738)		1	1					1.4	3.5	0.0	0.0	0.0	
Congenital Anomalies (740-759)		181	79	59	25	18		246.8	279.3	221.5	265.1	200.0	
Anencephalus (740)		9	1	6		2		12.3	3.5	22.5	0.0	22.2	
Spina bifida (741)		10	5	5				13.6	17.7	18.8	0.0	0.0	
Congenital hydrocephalus (742)		5	2	2	1			6.8	7.1	7.5	10.6	0.0	
Other congenital anomalies of central nervous system (743)		10	4	4		2		13.6	14.1	15.0	0.0	22.2	
Congenital anomaly of heart (746)		50	23	15	9	3		68.2	81.3	56.3	95.4	33.3	
Other congenital anomaly of circulatory system (747)		20	7	6	4	3		27.3	24.7	22.5	42.4	33.3	
Congenital anomaly of respiratory system (748)		21	11	3	4	3		28.6	38.9	11.3	42.4	33.3	
Congenital anomaly of digestive system (749-751)		7	1	3	2	1		9.5	3.5	11.3	21.2	11.1	
Congenital anomaly of genitourinary system (752-753)		8	5	1	2			10.9	17.7	3.8	21.2	0.0	
Congenital anomaly of musculoskeletal system (754-756)		5	1	3		1		6.8	3.5	11.3	0.0	11.1	
Congenital anomaly affecting multiple systems (759)		35	19	11	3	2		47.7	67.2	41.3	31.8	22.2	
Congenital anomaly, other and unspecified (745,757,758)		1				1		1.4	0.0	0.0	0.0	11.1	
Certain Causes of Mortality in Early Infancy		479	147	124	119	89		653.0	519.7	465.5	1,261.9	989.1	
Toxemia of pregnancy (762)		2	1	1	1			2.7	0.0	3.8	10.6	0.0	
Maternal antepartum or intrapartum infection (763)		5	2	1	1	1		6.8	7.1	3.8	10.6	11.1	
Difficult labor without mention of birth injury (764-768)		6	1	1	2	2		8.2	3.5	3.8	21.2	22.2	
Incompetent cervix (7690)		1	1					1.4	3.5	0.0	0.0	0.0	

(continued)

TABLE 35
RESIDENT INFANT DEATHS BY RACE BY SEX AND CAUSE OF DEATH WITH RATES PER 100,000 LIVE BIRTHS, VIRGINIA, 1978 (continued)

CAUSE OF DEATH (Numbers refer to International Classification of Diseases, Adapted, 8th Revision)	Infant Deaths			Rates		
	Total		Nonwh Female	White		Nonwh Female
	Male	Female		Male	Female	
STATE OF VIRGINIA	989	344	267	218	160	1,778.2
Certain Causes of Mortality in Early Infancy (continued)						
Premature rupture of membranes (7691)	5	1	3	6.8	3.8	11.1
Multiple pregnancy (7694)	38	12	10	51.8	37.5	77.8
Other complications of pregnancy and childbirth (7699)	1	1	3	1.4	0.0	0.0
Conditions of placenta (770)	14	7	3	19.1	11.3	0.0
Conditions of umbilical cord (771)	2	1	1	2.7	0.0	11.1
Birth injury without mention of cause (772)	39	16	10	53.2	37.5	44.5
Hemolytic disease of newborn (774-775)	3	2	1	4.1	7.5	11.1
Aspiration of content of birth canal (7760)	11	3	1	15.0	3.8	22.2
Hyaline membrane disease (7761)	40	20	12	54.5	45.1	55.6
Respiratory distress syndrome (7762)	51	19	20	69.5	75.1	77.8
Asphyxia of newborn unspecified (7763, 7769)	73	18	18	99.5	67.6	166.7
Immaturity, unqualified (777)	106	25	23	144.5	86.3	266.7
Hemorrhagic disease of newborn (7782)	7	2	2	9.5	7.5	11.1
Other conditions of newborn (7789)	75	19	19	102.3	71.3	200.0
Sudden Infant Death Syndrome (Crib Death) (7950)	121	43	30	165.0	112.6	233.4
Other symptoms and ill-defined conditions (780-794, 796)	8	4	4	10.9	15.0	0.0
Accidents (E800-E949)						
Motor vehicle (E810-E823)	21	7	5	28.6	18.8	33.3
Inhalation or ingestion of food or object (E911-E912)	4	2	2	5.5	0.0	22.2
Mechanical suffocation (E913)	3	2	1	4.1	0.0	0.0
Other accidents (residual)	6	1	4	8.2	3.8	11.1
Homicide (E960-E978)	8	2	1	10.9	7.5	0.0
Undetermined external cause (E980-E989)	2	1	1	2.7	3.8	0.0
	3	1	1	4.1	10.6	0.0

TABLE 36
RESIDENT INFANT DEATHS BY AGE AND CAUSE OF DEATH, VIRGINIA, 1978

CAUSE OF DEATH (Numbers refer to International Classification of Diseases, Adapted, 8th Revision)		Total Under 1 Year	Under 1 Day	1-6 Days	7-13 Days	14-20 Days	21-27 Days	Total Under 28 Days	1 Mo.	2 Mos.	3-5 Mos.	6-8 Mos.	9-11 Mos.
STATE OF VIRGINIA		989	393	220	37	32	11	693	76	49	95	46	30
Salmonella infection (003)		1							1				
Diarrheal disease (009)		14		4	2	2	1	9	1	2	2		
Meningococcal infections (036)		2										1	
Septicemia (038)		29	6	9	3	3		21	2	3	2		1
Other bacterial diseases (039)		1		1				1					
Viral diseases (040-079)		3	1		1	1		3					
Diseases of the thyroid and other endocrine glands (240-258)		1		1				1					
Metabolic diseases (270-279)		3		1		1		2		1			
Diseases of the blood and blood forming organs (280-289)		2										2	
Meningitis (320)		10		2		1		3	2	2	1		2
Other diseases of nervous system and sense organs (321-389)		17			1			1	1	2	6	3	4
Diseases of the circulatory system (390-458)		28		5			1	6	6	2	6	2	6
Influenza and pneumonia (470-486)		32	1	3	2	1		7	5	4	9	4	3
Other diseases of the respiratory system (460-466, 490-519)		8	1	1				2	4	2			
Diseases of the digestive system (500-577)		18	3	5	2	1	2	13		1	3	1	
Diseases of the genitourinary system (580-629)		4		2	1	1		4					
Diseases of the musculoskeletal system and connective tissue (710-738)		1							1				
Congenital Anomalies (740-759)		181	60	36	10	2	5	120	13	6	19	15	8
Anencephalus (740)		9	7	2				9					
Spina bifida (741)		10	2		3	1	1	7	1	2	1		2
Congenital hydrocephalus (742)		5											
Other congenital anomaly of central nervous system (743)		10	8			1		9					
Congenital anomaly of heart (746)													
Other congenital anomaly of circulatory system (747)		50	8	10	2	5	2	27	4	2	5	9	3
Congenital anomaly of respiratory system (748)		20	2	13	2			17	1	1	1		
Congenital anomaly of digestive system (749-751)		21	8	1				9	2	1	4	4	1
Congenital anomaly of genitourinary system (752-753)		7	2	1	1			4	1				
Congenital anomaly of musculoskeletal system (754-756)		8	6	1		1		8					
Congenital anomalies affecting multiple systems (759)													
Congenital anomalies, other and unspecified (745, 757, 760)		5	1	1	1	1	1	4	2	2	4	1	1
Certain Causes of Mortality in Early Infancy		35	15	7	1	1	1	25					
Toxemia of pregnancy (762)		1											
Maternal antepartum or intrapartum infection (763)		479	313	142	13	7	1	476		2		1	
Difficult labor without mention of birth injury (764-768)		2	2	3				2					
Incompetent cervix (7690)		5	3			1		5					
		6	2	3				6					
		1	1					1					

(continued)

TABLE 36
RESIDENT INFANT DEATHS BY AGE AND CAUSE OF DEATH, VIRGINIA, 1978 (continued)

CAUSE OF DEATH (Numbers refer to International Classification of Diseases, Adapted, 8th Revision)		Total Under 1 Year	Under 1 Day	1-6 Days	7-13 Days	14-20 Days	21-27 Days	Total Under 28 Days	1 Mo.	2 Mos.	3-5 Mos.	6-8 Mos.	9-11 Mos.
STATE OF VIRGINIA		989	393	220	37	32	11	693	76	49	95	46	30
Certain Causes of Mortality in Early Infancy (continued)													
Premature rupture of membranes (7691)		5	5					5					
Multiple pregnancy (7694)		38	29	9				38					
Other complications of pregnancy and childbirth (7699)		1	1					1					
Conditions of placenta (770)		14	13	1				14					
Conditions of umbilical cord (771)		2	1	1				2					
Birth injury without mention of cause (772)		39	7	27	4	1		39					
Hemolytic disease of newborn (774-775)		3	1	2				3					
Aspiration of content of birth canal (7760)		11	4	6		1		11					
Hyaline membrane disease (7761)		40	13	26	1			40					
Respiratory distress syndrome (7762)		51	30	16	1	3	1	51					
Asphyxia of newborn unspecified (7763, 7769)		73	49	17	5			71	2				
Immaturity, unspecified (777)		106	97	9				106					
Hemorrhagic disease of newborn (7782)		7	5	5	1	1		7					
Other conditions of newborn (7789)		75	55	18	1			74				1	
Sudden Infant Death Syndrome (Crib Death) (7950)		121	2	5	1	4	1	13	38	21	38	10	1
Other symptoms and ill-defined conditions (780-794, 796)		8	3	1				4	1		2	1	
Accidents (E800-E949)		21	1	1	1	1		4		1	5	6	5
Motor vehicle (E810-E823)		4									2		1
Inhalation or ingestion of food or object (E911-E912)		3		1	1			2			1		1
Mechanical suffocation (E913)		6											
Other accidents (residual)		8	1			1		2			2	1	3
Homicide (E960-E978)		2						1	1				
Undetermined external cause (E980-E989)		3	2					2			1		

TABLE 37 - DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE PER 1,000 POPULATION
BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1978

NOTE: Rates for cities and counties have been calculated on estimated July 1 household populations but rates for planning districts and the entire State are done on the total populations.

Planning District/ City or County	PLACE OF OCCURRENCE			PLACE OF RESIDENCE					
	Total	White	Nonwhite	Number			Rate		
STATE OF VIRGINIA	40,196	30,999	9,197	40,649	31,497	9,152	7.9	7.6	9.2
<u>District 1</u>									
Lee	267	247	20	1,014	995	19	10.3	10.5	4.6
Scott	225	220	5	310	307	3	12.3	12.4	6.1
Wise	70	70		228	228		9.2	9.4	0.0
Norton	276	267	9	419	405	14	9.5	9.7	5.2
	196	190	6	57	55	2	13.3	14.2	4.5
<u>District 2</u>									
Buchanan	737	730	7	1,075	1,051	24	8.0	8.1	4.9
Dickenson	169	169		246	245	1	6.8	7.0	0.8
Russell	60	60		143	141	2	7.2	7.2	3.9
Tazewell	147	145	2	251	249	2	8.8	8.9	2.7
	361	356	5	435	416	19	8.8	8.8	7.7
<u>District 3</u>									
Bland	1,528	1,483	45	1,743	1,678	65	10.2	10.1	11.9
Carroll	15	15		53	52	1	8.3	8.7	2.4
Grayson	66	66		233	232	1	9.8	9.8	4.3
Smyth	52	50	2	174	170	4	11.2	11.5	5.1
Washington	364	352	12	319	311	8	10.1	10.1	12.7
Wythe	381	374	7	408	396	12	10.0	9.9	17.6
Bristol	251	237	14	250	236	14	10.3	10.1	14.6
Galax	166	160	6	231	210	21	11.1	10.8	14.4
	233	229	4	75	71	4	11.4	11.3	13.8
<u>District 4</u>									
Floyd	914	870	44	1,063	1,007	56	8.0	8.0	8.1
Giles	37	36	1	95	91	4	8.9	9.1	5.8
Montgomery	139	137	2	198	194	4	11.9	11.8	13.8
Pulaski	284	271	13	340	326	14	8.1	8.1	7.8
Radford	264	247	17	333	304	29	10.1	10.0	11.6
	190	179	11	97	92	5	13.5	13.7	10.2
<u>District 5</u>									
Alleghany	2,956	2,613	343	2,420	2,125	295	10.2	10.0	12.1
Botetourt	67	64	3	118	111	7	9.1	9.0	12.1
Craig	83	73	10	195	186	9	9.1	9.5	4.9
Roanoke	12	12		36	36		8.8	8.8	0.0
Clifton Forge	259	249	10	454	438	16	7.3	7.3	7.8
Covington	266	240	26	77	63	14	16.0	15.8	17.5
Roanoke City	22	20	2	113	101	12	12.6	12.8	10.8
Salem	1,428	1,216	212	1,221	994	227	12.4	12.2	13.4
	819	739	80	206	196	10	9.5	9.4	11.9
<u>District 6</u>									
Augusta	1,804	1,696	108	1,760	1,657	103	8.7	8.7	9.4
Bath	220	198	22	406	389	17	8.1	8.1	8.1
Highland	43	40	3	60	55	5	10.9	11.4	7.6
Rockbridge	12	12		29	29		10.4	10.4	0.0
Rockingham	60	56	4	153	145	8	9.2	9.2	9.3
Buena Vista	164	163	1	444	437	7	8.4	8.4	7.9
Harrisonburg	27	23	4	58	52	6	8.7	8.0	28.6
Lexington	529	509	20	151	139	12	12.2	12.2	13.3
Staunton	120	109	11	73	63	10	15.7	16.1	13.7
Waynesboro	365	346	19	244	220	24	11.7	11.8	10.8
	264	240	24	142	128	14	8.7	8.5	11.1
<u>District 7</u>									
Clarke	1,313	1,235	78	1,324	1,253	71	10.5	10.4	11.9
Frederick	37	30	7	83	69	14	9.0	8.7	11.0
Page	27	27		238	235	3	8.4	8.5	4.1
Shenandoah	128	121	7	203	195	8	10.7	10.7	12.1
Warren	232	228	4	305	302	3	11.3	11.4	5.3
Winchester	182	170	12	213	198	15	10.8	10.5	16.5
	707	659	48	282	254	28	12.2	11.9	15.5
<u>District 8</u>									
Arlington	4,617	4,123	494	4,482	4,482	496	4.8	4.8	5.2
Fairfax	1,027	939	88	1,014	927	87	6.9	7.0	6.0
Loudoun	1,725	1,607	118	2,197	2,059	138	4.1	4.1	3.7
Prince William	250	212	38	317	266	51	6.0	5.7	8.0
Alexandria	224	186	38	414	368	46	3.1	3.0	4.9
Fairfax City	901	746	155	744	591	153	7.1	7.3	6.4
Falls Church	205	182	23	108	100	8	5.3	5.1	10.4
Manassas	14	14		84	83	1	9.4	10.3	1.2
Manassas Park	271	237	34	79	68	11	6.2	5.8	9.6
				21	20	1	2.5	2.4	50.0
<u>District 9</u>									
Culpeper	602	487	115	817	650	167	9.5	9.7	8.9
Fauquier	162	131	31	195	152	43	8.9	9.1	8.3
Madison	253	199	54	272	206	66	8.8	8.6	9.6
Orange	48	42	6	99	79	20	10.0	9.8	11.0
Rappahannock	123	100	23	187	157	30	11.0	11.9	7.8
	16	15	1	64	56	8	10.8	11.1	9.5
<u>District 10</u>									
Albemarle	1,534	1,210	324	1,193	906	287	8.8	8.4	10.4
Fluvanna	929	721	208	319	259	60	7.6	7.1	10.6
Greene	50	39	11	108	77	31	10.7	11.3	9.5
Louisa	22	17	5	68	57	11	9.3	8.9	12.1
Nelson	64	41	23	181	122	59	10.2	10.6	9.5
Charlottesville	76	56	20	187	138	49	16.0	16.8	14.0
	393	336	57	330	253	77	10.2	9.6	13.2
<u>District 11</u>									
Amherst	1,828	1,427	401	1,790	1,402	388	9.7	9.3	11.3
Appomattox	137	107	30	256	199	57	10.6	10.1	12.8
Bedford	49	36	13	126	94	32	11.0	10.7	11.9
Campbell	99	89	10	291	245	46	9.4	9.1	11.1
Bedford City	95	75	20	312	250	62	7.0	6.6	10.1
Lynchburg	203	166	37	99	84	15	16.0	15.2	22.7
	1,245	954	291	706	530	176	11.5	11.4	11.8

(continued)

TABLE 37 - DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE PER 1,000 POPULATION
BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1978 (continued)

NOTE: Rates for cities and counties have been calculated on estimated July 1 household populations but rates for planning districts and the entire State are done on the total populations.

Planning District/ City or County	PLACE OF OCCURRENCE			PLACE OF RESIDENCE					
	Total	White	Nonwhite	Total	Number White	Nonwhite	Total	Rate White	Nonwhite
STATE OF VIRGINIA	40,196	30,999	9,197	40,649	31,497	9,152	7.9	7.6	9.2
District 12	1,910	1,426	484	2,094	1,581	513	9.1	9.2	8.8
Franklin	157	135	22	263	232	31	8.4	8.6	7.0
Henry	84	60	24	387	303	84	6.9	7.0	6.4
Patrick	114	100	14	146	129	17	9.0	8.7	12.4
Pittsylvania	169	100	69	548	386	162	8.7	9.5	7.4
Danville	932	683	249	547	405	142	12.6	12.9	11.8
Martinsville	454	348	106	203	126	77	11.5	10.2	14.5
District 13	798	461	337	933	519	414	11.2	11.1	11.3
Brunswick	76	37	39	191	89	102	11.9	13.5	10.8
Halifax	92	60	32	304	178	126	10.1	10.1	10.2
Mecklenburg	321	170	151	351	194	157	11.7	11.1	12.7
South Boston	309	194	115	87	58	29	12.1	12.3	11.7
District 14	562	355	207	913	574	339	11.1	11.8	10.1
Amelia	28	15	13	83	50	33	9.9	10.7	8.6
Buckingham	43	30	13	106	73	33	9.1	10.9	6.6
Charlotte	58	37	21	150	104	46	11.8	14.2	8.6
Cumberland	21	6	15	70	34	36	9.6	8.0	11.8
Lunenburg	51	37	14	136	96	40	10.9	14.3	6.9
Nottoway	91	48	43	174	102	72	12.4	11.5	14.1
Prince Edward	270	182	88	194	115	79	15.2	13.7	18.0
District 15	6,070	4,229	1,841	5,098	3,626	1,472	8.3	7.9	9.7
Charles City Co.	20	3	17	50	15	35	7.6	14.3	6.3
Chesterfield	169	145	24	581	507	74	4.7	4.7	4.6
Goochland	28	21	7	74	47	27	6.9	7.5	6.0
Hanover	167	128	39	372	288	84	7.3	6.7	10.3
Henrico	1,457	1,269	188	1,346	1,231	115	7.7	8.1	5.5
New Kent	18	12	6	64	39	25	8.2	8.3	8.0
Powhatan	28	18	10	86	58	28	7.7	7.4	8.2
Richmond City	4,183	2,633	1,550	2,525	1,441	1,084	12.4	11.9	13.1
District 16	734	596	138	819	627	192	7.4	7.1	8.7
Caroline	51	31	20	163	89	74	9.6	10.1	9.1
King George	29	24	5	71	54	17	7.2	7.3	7.1
Spotsylvania	77	63	14	200	159	41	6.8	6.4	8.4
Stafford	91	78	13	215	181	34	6.1	5.7	9.9
Fredericksburg	486	400	86	170	144	26	11.2	11.6	9.5
District 17	302	217	85	521	361	160	13.0	14.7	10.2
Lancaster	175	130	45	113	82	31	11.1	12.6	8.4
Northumberland	63	41	22	148	101	47	15.6	17.6	12.5
Richmond	23	16	7	102	66	36	15.0	14.9	15.3
Westmoreland	41	30	11	158	112	46	11.5	14.4	7.8
District 18	496	335	161	638	440	198	11.3	11.8	10.4
Essex	158	91	67	72	42	30	8.9	8.8	9.0
Gloucester	178	135	43	184	134	50	10.2	9.6	12.5
King and Queen	24	13	11	68	44	24	11.1	14.7	7.7
King William	40	22	18	107	59	48	12.4	11.8	13.3
Mathews	51	42	9	107	91	16	13.0	15.0	7.5
Middlesex	45	32	13	100	70	30	13.5	15.4	10.6
District 19	1,319	784	535	1,410	847	563	8.9	8.3	9.9
Dinwiddie	193	94	99	182	105	77	9.7	9.0	10.6
Greensville	33	15	18	111	48	63	11.1	10.6	11.5
Prince George	44	31	13	113	80	33	6.5	6.1	7.6
Surry	23	13	10	76	42	34	13.3	21.6	9.0
Sussex	41	16	25	105	44	61	9.7	11.3	8.8
Colonial Heights	25	25		115	113	2	6.6	6.6	16.7
Emporia	160	78	82	63	43	20	12.4	14.6	9.3
Hopewell	195	156	39	192	158	34	8.0	8.0	8.0
Petersburg	605	356	249	453	214	239	10.5	9.4	11.7
District 20	6,263	3,941	2,322	6,134	3,814	2,320	7.3	6.4	9.5
Isle of Wight	48	31	17	166	96	70	8.1	8.4	7.8
Southampton	59	19	40	208	93	115	11.0	9.1	13.1
Chesapeake	486	337	149	745	520	225	6.6	6.2	7.9
Franklin City	184	105	79	95	38	57	13.4	12.1	14.4
Norfolk	2,894	1,720	1,174	2,284	1,283	1,001	9.2	7.9	12.0
Portsmouth	1,292	839	453	1,048	615	433	9.8	10.5	8.9
Suffolk	486	236	250	518	253	265	11.0	10.4	11.7
Virginia Beach	814	654	160	1,070	916	154	4.6	4.4	5.9
District 21	2,632	1,704	928	2,285	1,509	776	6.7	6.2	7.8
James City Co.	163	105	58	152	94	58	7.8	7.0	9.6
York	33	25	8	150	115	35	4.5	4.4	5.1
Hampton	907	560	347	797	544	253	6.7	6.7	6.6
Newport News	1,288	858	430	1,055	646	409	7.5	6.6	9.7
Poquoson	7	7		52	52		5.6	5.6	0.0
Williamsburg	234	149	85	79	58	21	12.9	12.1	15.4
District 22	510	330	180	627	393	234	13.3	14.4	11.7
Accomack	190	138	52	435	294	141	13.6	14.9	11.6
Northampton	320	192	128	192	99	93	12.5	13.0	12.0

TABLE 38
RESIDENT DEATHS FROM IMPORTANT CAUSES WITH RATES PER 100,000 POPULATION BY RACE, VIRGINIA, 1969-1978

YEAR	TOTAL		WHITE		NONWHITE		TOTAL		WHITE		NONWHITE	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
TUBERCULOSIS, ALL FORMS 010-019							HEART DISEASE 390-398, 402, 404, 410-429					
1969	136	2.8	69	1.8	67	7.3	14,346	300.1	11,259	291.8	3,087	334.7
1970	143	3.1	69	1.8	74	8.3	14,494	310.7	11,503	304.9	2,991	335.1
1971	108	2.3	53	1.4	55	6.2	14,580	309.3	11,694	305.7	2,886	324.8
1972	94	2.0	43	1.1	51	5.7	14,751	309.6	11,784	304.4	2,967	332.4
1973	87	1.8	45	1.1	42	4.7	14,945	310.6	11,875	302.8	3,070	345.1
1974	92	1.9	45	1.1	47	5.3	14,766	300.9	11,766	293.0	3,000	336.1
1975	81	1.6	33	0.8	48	5.3	14,587	293.7	11,646	286.2	2,941	327.6
1976	77	1.5	30	0.7	47	5.0	14,895	296.0	11,899	290.5	2,996	320.0
1977	71	1.4	35	0.8	36	3.8	14,460	281.6	11,573	276.6	2,887	303.7
1978	60	1.2	30	0.7	30	3.0	15,275	296.7	12,270	295.5	3,005	301.9
SYPHILIS 090-097							HYPERTENSION 400-401, 403					
1969	21	0.4	6	0.2	15	1.6	168	3.5	87	2.3	81	8.8
1970	16	0.3	5	0.1	11	1.2	198	4.2	108	2.9	90	10.1
1971	12	0.3	4	0.1	8	0.9	176	3.7	92	2.4	84	9.5
1972	10	0.2	3	0.1	7	0.8	178	3.7	93	2.4	85	9.5
1973	15	0.3	5	0.1	10	1.1	178	3.7	104	2.7	74	8.3
1974	11	0.2	3	0.1	8	0.9	153	3.1	89	2.2	64	7.2
1975	4	0.1	1	*	3	0.3	113	2.3	71	1.7	42	4.7
1976	7	0.1	2	*	5	0.5	113	2.2	63	1.5	50	5.3
1977	10	0.2	5	0.1	5	0.5	109	2.1	65	1.6	44	4.6
1978	8	0.2	4	0.1	4	0.4	110	2.1	70	1.7	40	4.0
MALIGNANT NEOPLASMS 140-209							ARTERIOSCLEROSIS 440					
1969	6,218	130.1	4,769	123.6	1,449	157.1	574	12.0	455	11.8	119	12.9
1970	6,383	136.8	5,022	133.1	1,361	152.5	575	12.3	472	12.5	103	11.5
1971	6,726	142.7	5,243	137.0	1,483	166.9	659	14.0	532	13.9	127	14.3
1972	7,158	150.3	5,597	144.6	1,561	174.9	630	13.2	528	13.6	102	11.4
1973	7,344	152.7	5,733	146.2	1,611	181.1	709	14.7	580	14.8	129	14.5
1974	7,581	154.5	5,985	149.1	1,596	178.8	643	13.1	515	12.8	128	14.3
1975	7,463	150.3	5,863	144.1	1,600	178.2	569	11.5	463	11.4	106	11.8
1976	7,533	149.7	5,861	143.1	1,672	178.6	583	11.6	488	11.9	95	10.1
1977	7,962	155.1	6,187	147.9	1,775	186.7	611	11.9	501	12.0	110	11.6
1978	8,117	157.7	6,292	151.5	1,825	183.3	563	10.9	459	11.1	104	10.4
DIABETES MELLITUS 250							OTHER DISEASES OF ARTERIES, ARTERIOLES AND CAPILLARIES 441-448					
1969	655	13.7	435	11.3	220	23.8	489	10.2	403	10.4	86	9.3
1970	600	12.9	416	11.0	184	20.6	481	10.3	413	10.9	68	7.6
1971	677	14.4	460	12.0	217	24.4	548	11.6	459	12.0	89	10.0
1972	712	14.9	486	12.6	226	25.3	526	11.0	442	11.4	84	9.4
1973	724	15.0	507	12.9	217	24.4	571	11.9	487	12.4	84	9.4
1974	741	15.1	500	12.5	241	27.0	562	11.5	477	11.9	85	9.5
1975	627	12.6	437	10.7	190	21.2	562	11.3	464	11.4	98	10.9
1976	620	12.3	428	10.5	192	20.5	571	11.3	466	11.4	105	11.2
1977	632	12.3	436	10.4	196	20.6	509	9.9	430	10.3	79	8.3
1978	629	12.2	401	9.7	228	22.9	566	11.0	468	11.3	98	9.8
CEREBROVASCULAR DISEASE 430-438							INFLUENZA AND PNEUMONIA 470-474, 480-486					
1969	4,251	88.9	3,057	79.2	1,194	129.4	1,586	33.2	1,136	29.4	450	48.8
1970	4,175	89.5	3,055	81.0	1,120	125.5	1,451	31.1	1,049	27.8	402	45.0
1971	4,213	89.4	3,182	83.2	1,031	116.0	1,261	26.7	944	24.7	317	35.7
1972	4,466	93.7	3,335	86.1	1,131	126.7	1,516	31.8	1,134	29.3	382	42.8
1973	4,422	91.9	3,308	84.4	1,114	125.2	1,507	31.3	1,132	28.9	375	42.2
1974	4,238	86.3	3,183	79.3	1,055	118.2	1,354	27.6	1,006	25.1	348	39.0
1975	3,932	79.2	2,925	71.9	1,007	112.2	1,293	26.0	1,011	24.8	282	31.4
1976	3,958	78.7	3,016	73.6	942	100.6	1,394	27.7	1,093	26.7	301	32.1
1977	3,852	75.0	2,871	68.6	981	103.2	1,121	21.8	865	20.7	256	26.9
1978	3,746	72.8	2,846	68.5	900	90.4	1,292	25.1	1,039	25.0	253	25.4

NOTE: The heading for each individual table shows the name of the disease and the International Classification Code, 8th Revision for 1969-1978.

Less than 0.05 per 100,000 population

TABLE 38
RESIDENT DEATHS FROM IMPORTANT CAUSES WITH RATES FOR 100,000 POPULATION BY RACE, VIRGINIA, 1969-1978 (continued)

YEAR	TOTAL		WHITE		NONWHITE		TOTAL		WHITE		NONWHITE	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
GASTRITIS, DUODENITIS, ENTERITIS, AND COLITIS 008,009,535						DISEASES OF EARLY INFANCY 760-778						
1969	65	1.4	45	1.2	20	2.2	1,066	22.3	704	18.2	362	39.2
1970	74	1.6	46	1.2	28	3.1	1,082	23.2	696	18.4	386	43.2
1971	67	1.4	43	1.1	24	2.7	972	20.6	639	16.7	333	37.5
1972	58	1.2	44	1.1	14	1.6	873	18.3	559	14.4	314	35.2
1973	62	1.3	47	1.2	15	1.7	756	15.7	512	13.1	244	27.4
1974	50	1.0	32	0.8	18	2.0	726	14.8	458	11.4	268	30.0
1975	48	1.0	30	0.7	18	2.0	697	14.0	431	10.6	266	29.6
1976	42	0.8	27	0.7	15	1.6	587	11.7	341	8.3	246	26.3
1977	55	1.1	38	0.9	17	1.8	613	11.9	352	8.4	261	27.5
1978	38	0.7	25	0.6	13	1.3	480	9.3	272	6.6	208	20.9
NEPHRITIS AND NEPHROSIS 580-584						ACCIDENTS, ALL TYPES E800-E949						
1969	221	4.6	129	3.3	92	10.0	2,826	59.1	2,086	54.1	740	80.2
1970	169	3.6	100	2.7	69	7.7	2,588	55.5	1,866	49.5	722	80.9
1971	163	3.5	93	2.4	70	7.9	2,585	54.8	1,916	50.1	669	75.3
1972	187	3.9	106	2.7	81	9.1	2,692	56.5	2,008	51.9	684	76.6
1973	160	3.3	88	2.2	72	8.1	2,741	57.0	2,032	51.8	709	79.7
1974	175	3.6	98	2.4	77	8.6	2,540	51.8	2,008	50.0	532	59.6
1975	157	3.2	84	2.1	73	8.1	2,508	50.5	1,921	47.2	587	65.4
1976	168	3.3	92	2.2	76	8.1	2,385	47.4	1,816	44.3	569	60.8
1977	191	3.7	107	2.6	84	8.8	2,597	50.6	1,946	46.5	651	68.5
1978	168	3.3	95	2.3	73	7.3	2,404	46.7	1,821	43.9	583	58.6
INFECTIONS OF KIDNEY 590						MOTOR VEHICLE ACCIDENTS E810-E823						
1969	177	3.7	124	3.2	53	5.7	1,268	26.5	931	24.1	337	36.5
1970	175	3.8	114	3.0	61	6.8	1,241	26.6	909	24.1	332	37.2
1971	178	3.8	120	3.1	58	6.5	1,186	25.2	902	23.6	284	32.0
1972	152	3.2	109	2.8	43	4.8	1,227	25.8	943	24.4	284	31.8
1973	136	2.8	104	2.7	32	3.6	1,250	26.0	944	24.1	306	34.4
1974	108	2.2	73	1.8	35	3.8	1,050	21.4	844	21.0	206	23.1
1975	99	2.0	75	1.8	24	2.7	1,029	20.7	821	20.2	208	23.2
1976	64	1.3	51	1.2	13	1.4	1,029	20.4	810	19.8	219	23.4
1977	64	1.2	42	1.0	22	2.3	1,191	23.2	918	21.9	273	26.7
1978	60	1.2	44	1.1	16	1.6	1,081	21.0	848	20.4	233	23.4
COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND PUERPERIUM 630-678						SUICIDE E950-E959						
1969	17	2.0	10	1.5	7	3.8	570	11.9	525	13.6	45	4.9
1970	21	2.4	10	1.5	11	5.7	576	12.3	524	13.9	52	5.8
1971	10	1.2	3	0.5	7	3.7	617	13.1	561	14.7	56	6.3
1972	14	1.9	6	1.0	8	4.5	697	14.6	636	16.4	61	6.8
1973	13	1.8	4	0.7	9	5.4	679	14.1	624	15.9	55	6.2
1974	8	1.1	3	0.6	5	3.0	713	14.5	643	16.0	70	7.8
1975	9	1.3	3	0.6	6	3.6	760	15.3	700	17.2	60	6.7
1976	6	0.9	2	0.4	4	2.4	795	15.8	724	17.7	71	7.6
1977	11	1.5	10	1.8	1	0.5	807	15.7	721	17.2	86	9.0
1978	7		2		5		732	14.2	660	15.9	72	7.2
CONGENITAL ANOMALIES 740-759						HOMICIDE E960-E978						
1969	397	8.3	326	8.4	71	7.7	359	7.5	146	3.8	213	23.1
1970	412	8.8	329	8.7	83	9.3	438	9.4	181	4.8	257	28.8
1971	405	8.6	328	8.6	77	8.7	447	9.5	193	5.0	254	28.6
1972	369	7.7	298	7.7	71	8.0	517	10.9	211	5.5	306	34.3
1973	313	6.5	239	6.1	74	8.3	547	11.4	259	6.6	288	32.4
1974	317	6.5	233	5.8	84	9.4	572	11.7	269	6.7	303	33.9
1975	293	5.9	237	5.8	56	6.2	598	12.0	279	6.9	319	35.5
1976	321	6.4	245	6.0	76	8.1	498	9.9	238	5.8	260	27.8
1977	300	5.8	218	5.2	82	8.6	482	9.4	237	5.7	245	25.8
1978	295	5.7	221	5.3	74	7.4	480	9.3	236	5.7	244	24.5

* Rates per 10,000 live births

TABLE 39 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1918

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
ALL CAUSES	Total	40,619	989	166	119	135	425	569	438	502	622	877	1,334	2,172	3,257	3,890	4,868	5,106	5,090	4,449	5,720	11
	M W	17,408	344	65	57	56	244	330	217	223	287	390	575	1,076	1,581	1,855	2,411	2,346	2,066	1,603	1,680	2
	F W	14,089	267	45	28	31	89	100	82	120	147	210	355	523	808	1,038	1,304	1,565	1,979	2,135	3,261	2
	F Nw	5,226	218	26	23	26	66	101	91	105	113	174	250	361	549	627	702	608	508	347	325	6
Enteritis and other diarrheal diseases (008-009)	Total	31	14	1	2			38	48	54	75	103	154	212	313	370	451	487	537	364	464	1
	M W	9	1	1	2							1	1	1		1	2	3	1	1	4	1
	F W	10	3														1	1	1	1	2	
	F Nw	8	7																			
Tuberculosis, all forms (010-019)	Total	60							2	1	1	2	2	2	6	7	6	2	4	12	6	
	M W	19														1	2	2	2	4	3	
	F W	11							1			1	2	3	3	3	2	1	2	6	2	
	F Nw	19							1	1		2		1	1	1	1	1	2	1	1	
Meningococcal infections (036)	Total	2	2	1	2		1	1									1	1	1			
	M W	4	1	1	2																	
	F W	3					1	1														
	F Nw	1	1																			
Septicemia (038)	Total	277	29	2		1	1				4	7	9	18	27	26	32	34	35	22	29	1
	M W	96	10	1							2	2	2	7	8	12	16	8	15	8	5	
	F W	85	8	1		1	1				2	1	2	2	6	9	6	13	6	8	19	
	F Nw	51	6									1	2	4	7	7	4	6	9	3	3	
Measles (055)	Total	1				1						3	3	5	6	2	4	7	5	3	2	
	M W	1				1																
	F W																					
	F Nw																					
Syphilis and its sequelae (090-097)	Total	8										1			1		2	1	2		1	
	M W	2																				
	F W	2																				
	F Nw	3																				
Other infective and parasitic diseases (Residual)	Total	98	5	3	4	3	5	2	3	1	2	4	7	7	7	7	16	3	5	8	10	
	M W	35	1	2	2	1	3	2	1	3	1	1	1	3	4	3	7	2	2	1	2	
	F W	26	1														6	1	1	2	4	
	F Nw	22	1			1	2		2						2	2	2	1	2	5	3	
Malignant neoplasms (140-209)	Total	8,117	11	15	17	13	29	37	35	69	116	186	362	638	948	1,102	1,286	1,185	207	537	514	1
	M W	3,423		6	8	4	14	19	15	22	32	59	131	264	398	477	590	576	381	246	181	
	F W	2,869		7	6	4	9	11	7	26	57	88	147	223	322	362	388	356	336	280	240	
	F Nw	1,059		2	1	2	3	4	4	8	6	20	44	92	158	162	190	149	110	55	48	
	F Nw	765		2	2	3	3	3	9	13	21	19	40	59	90	101	118	104	80	56	45	

(continued)

TABLE 39 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1978 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
1. Buccal cavity and pharynx (140-149)	Total	184							1	1	2	3	12	27	35	40	21	21	11	8	2	
	M W	99							1	1	2	1	7	17	20	20	13	12	6	4	4	
	F W	33										1	1	4	5	8	4	4	4	3	1	
	M Nw	40							1			1	3	5	11	10	3	4	1	1	1	
	F Nw	12									1		2	1	2	2		1				
2. Digestive organs and peritoneum (150-159)	Total	1,998		2			3	4	5	8	22	31	64	131	208	256	301	305	286	193	179	
	M W	753		1		1	1	1	1	3	10	14	24	36	92	99	115	122	120	59	47	
	F W	748		1		1	1	1	1	2	10	14	24	36	64	85	93	110	110	94	103	
	M Nw	265						3		3	2	6	13	22	31	42	50	34	29	19	12	
	F Nw	232							3		4	1	7	16	21	30	43	39	27	21	17	
3. Respiratory system (160-163)	Total	2,287								6	15	47	106	220	320	387	426	352	216	122	63	
	M W	1,384								5	9	20	59	118	176	226	283	245	137	73	33	
	F W	452									4	15	23	53	63	84	64	49	43	34	20	
	M Nw	360								2	2	8	17	41	69	65	66	52	23	9	8	
	F Nw	91								1		4	7	8	12	12	13	13	13	6	2	
4. Breast (174)	Total	650						1	2	11	27	29	51	77	90	73	96	64	60	31	38	
	M W	3										1		1				1				
	F W	522						1		8	18	20	40	62	70	62	82	51	51	26	31	
	M Nw	-																				
	F Nw	125							2	3	9	8	10	15	20	11	14	12	9	5	7	
5. Genital organs (180-187)	Total	870				1	1	3	6	9	13	17	37	43	73	103	132	150	118	91	73	
	M W	277						3	4	2	1	1	2	8	26	26	41	54	43	49	35	
	F W	339						3	2	5	8	13	26	25	44	40	47	52	39	21	16	
	M Nw	137							2	2	1	1	1	1	7	18	28	26	28	13	16	
	F Nw	117					1			5	4	3	8	10	14	19	16	18	8	6	6	
6. Urinary organs (188,189)	Total	337						2	1	1	2	8	9	13	30	41	65	62	39	35	29	
	M W	191						1	1	1	1	4	4	10	15	25	34	43	10	20	16	
	F W	79									1	2	2	2	9	8	15	8	10	11	10	
	M Nw	45						1			1	2	3	1	4	5	9	9	2	1	1	
	F Nw	22							1	1					2	3	7	2	1	2	2	
7. Other and unspecified sites (170-173, 190-199)	Total	1,105		6	5	4	12	11	11	18	19	34	64	95	147	132	146	132	97	104	67	
	M W	430		2	2	2	6	7	4	3	6	15	32	42	64	60	55	53	29	28	22	
	F W	426		3	2	2	3	3	3	6	9	14	22	18	28	44	51	50	41	60	34	
	M Nw	136		1			1	1	1	2	2	2	6	6	25	12	22	15	14	7	8	
	F Nw	113			1		2	1	3	1	2	3	3	4	6	14	17	13	14	13	9	
8. Leukemia (204-207)	Total	292		7	12	7	9	9	3	7	9	9	10	15	26	18	40	38	26	16	21	
	M W	129		3	6	3	5	4	1	4	3	2	5	5	9	7	23	21	9	9	15	
	F W	114		3	4	4	4	4	2	1	5	7	4	4	9	6	11	10	17	10	12	
	M Nw	31		1								1	1	1	4	5	3	4	4	3	3	
	F Nw	18			1		1			2	1			2	2		3	3		1	1	
9. Other neoplasms of lymphatic and hemato- poietic tissues (200-203, 205, 209)	Total	224				1	4	7	6	8	7	8	9	17	39	51	59	54	54	37	32	
	M W	157				1	2	5	5	6	4	6	6	7	17	19	21	25	18	8	13	
	F W	156				1	1	1	2	2	2	2	6	9	14	20	21	22	22	21	13	
	M Nw	45				1			1	2			1	1	5	5	9	5	6	5	4	
	F Nw	36							1	2			2		3	7	8	2	8	3	2	

(continued)

TABLE 39 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1978 (continued)

CAUSE OF DEATH	Age/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
Benign neoplasms and neoplasms of unspecified nature (210-239)	Total	92			3	1				4	4	1	3	6	6	11	13	21	8	11	7	
	M W	42			1					3	1		1	2	2	6	7	9	5	5	2	
	F W	37			2					1	1			3	2	3	4	8	1	8	3	
	F Nw	8				1										1	2	2	1	1	1	
Diabetes mellitus (250)	Total	629		1	1	3			3	4	10	9	15	33	56	72	95	102	95	66	64	
	M W	159									2	5	6	10	13	19	23	30	24	13	12	
	F W	242			1	1			1	1	2	2	6	5	14	25	33	38	38	35	42	
	F Nw	94		1					1	3	1	2	2	10	8	15	19	13	10	10	15	
Avitaminosis and other nutritional deficiencies (260-269)	Total	57		1				1			1		4	10	15	13	20	21	23	13	9	
	M W	16											2		4	4	4	3	4	12	19	
	F W	27		1		1		1					2	1	2	1	3	1	2	5	15	
	F Nw	6																		2	2	
Anemias (280-285)	Total	72		2	2	4	2		2		1	2	1	1	4	6	2	6	14	8	12	
	M W	27									1					1		3	5	3	6	
	F W	20													2	1	1	3	6	5	3	
	F Nw	11		2	2	1	1		1			1			2	2			1	2	2	
Meningitis (320)	Total	40	10	6	3	1	4			2	1		1	1	2	1	1	4	2		1	
	M W	16	5	2	1	1																
	F W	12	2	2	1	1	1			1	1		1						2			
	F Nw	4	1	1	1																	
Major Cardiovascular Diseases (390-448)	Total	20,260	27	10	2	10	7	22	35	66	133	289	474	831	1,428	1,853	2,451	2,758	3,061	2,817	3,981	5
	M W	8,529	6	2	1	5	3	6	14	32	76	165	236	477	774	958	1,266	1,248	1,198	961	1,100	1
	F W	7,584	9	3	1	2	3	4	8	14	23	37	91	142	283	427	604	906	1,242	1,423	2,361	2
	F Nw	2,187	8	1	1	2	1	6	7	11	20	61	96	138	239	281	342	314	266	194	199	1
1. Diseases of heart (390-398, 402, 404, 410-429)	Total	15,275	22	8	2	5	6	16	24	49	105	251	405	704	1,211	1,534	1,953	2,089	2,260	1,966	2,663	2
	M W	6,860	5	3	1	1	2	4	11	27	68	151	218	428	697	825	1,057	973	941	711	740	
	F W	5,410	7	3	1	2	3	1	6	8	14	27	73	108	220	354	467	687	905	959	1,565	1
	F Nw	1,649	7	1	1	2	1	6	4	9	13	50	74	115	196	218	257	233	177	135	150	
a. Active rheumatic fever and chronic rheumatic heart disease (390-398)	Total	1,356	3	4				5	3	5	10	23	40	53	98	137	172	196	237	161	208	1
	M W	233	1			1		2	5	4	11	6	5	16	23	32	30	31	29	18	17	
	F W	83						1	1	1	4	3	3	10	7	16	12	10	9	5	4	
	F Nw	107	1					1	3	2	3	3	2	5	12	11	13	16	16	9	10	
b. Hypertensive heart disease (402)	Total	20							1	2	3	1	2	1	4	4	4	4	2	2	3	3
	M W	118								2	1	7	4	2	14	17	18	22	13	6	11	
	F W	37								2	1	1	1	1	7	3	6	6	5	5	6	
	F Nw	24										1	1	1	6	5	5	5	3	1	2	

(continued)

TABLE 39- RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1978 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
		Total M W F W M W F W																				
c. Hypertensive heart & renal disease (404)	Total	84									1	1	1	2	2	6	6	11	14	15	24	
	M W	20																5	3	3	7	
	F W	28												1		2	1	2	8	4	10	
	M W	14									1							2	1	3	2	
	F W	22										1		2		2	3	2	2	5	5	
d. Ischemic heart disease (410-414)	Total	13,271						2	12	26	72	200	343	617	1,033	1,336	1,701	1,845	2,015	1,748	2,319	2
	M W	6,153						1	9	18	51	131	195	384	628	754	952	883	843	648	656	
	F W	4,697							1	2	8	18	59	95	175	295	401	598	821	852	1,371	1
	M W	1,339								6	5	15	29	43	74	110	134	200	150	112	124	
	F W	1,082						1										164	201	136	168	1
e. Chronic disease of endocardium and other myocardial insuffi- ciency (424,428)	Total	167	2	1			1	2	1	4	3	5	11	11	19	15	27	16	15	11	23	
	M W	52									2	1	2	3	6	6	9	4	7	3	2	
	F W	50	1	1			1	1	1	3	1	1	2	1	2	3	3	8	5	4	15	
	M W	34										2		3	4	4	6	2	2	4	3	
	F W	31	1					1		1			2	4	7	2	2	2	2	1	3	
f. All other forms of heart disease (420- 423,425-427,429)	Total	1,402	19	7	2	4	5	10	6	13	17	30	41	54	120	128	171	164	174	168	259	
	M W	515	5	2	1	1	2	2	1	7	10	12	14	29	49	45	77	64	74	52	71	
	F W	493	5	2	1	2	3	5	1	1	3	4	9	5	31	38	44	57	50	84	154	
	M W	217	7	1	1	1	1	5	3	1	2	10	10	16	16	24	29	27	24	21	15	
	F W	177	2	4				3		4	2	4	8	4	16	16	23	19	29	17	25	
2. Hypertension (400,401, 403)	Total	110							2		2	3	4	3	6	7	9	18	21	15	20	
	M W	29													2	2	3	4	6	2	6	
	F W	41							1		1	1	3	1	1	1	3	10	6	9	10	
	M W	17									1	2		1	2	2	2	1	3	1	2	
	F W	23							1			1	1	2	3	3	1	3	6	3	2	
3. Cerebrovascular disease (430-438)	Total	3,746	4	2			5	3	7	15	19	32	58	105	164	241	382	498	612	643	953	2
	M W	1,173	1				4	2	2	4	6	13	13	37	49	87	151	184	185	183	219	
	F W	1,673	1						1	5	6	8	17	27	53	58	105	172	266	362	590	1
	M W	421	1						2	2	4	4	8	21	36	55	67	65	69	42	30	1
	F W	479	1				1	1	2	4	3	2	10	20	26	41	59	77	92	56	84	
4. Arteriosclerosis (440)	Total	563										1	1	2	11	15	21	55	76	120	251	
	M W	177													5	6	14	20	25	30	74	
	F W	282												1	3	5	8	20	32	64	149	
	M W	45													1	2	4	10	9	9	10	
	F W	59													2	2	5	5	10	17	18	
5. Other diseases of arteries, arterioles, and capillaries (441-448)	Total	566	1					3	2	2	7	2	7	16	36	56	76	98	92	73	94	1
	M W	290							1	1	2	2	2	9	21	31	41	67	41	35	31	
	F W	178	1					3	1	1	2	1	5	5	6	10	21	17	33	29	57	
	M W	55									2	1	3	1	5	4	12	5	8	7	7	
	F W	43									1	1	1	1	4	4	2	9	10	2	9	
Acute bronchitis and bronch- iolitis (466)	Total	19	1	1			1				1	1			2	1		2	1	2	2	
	M W	9																3				
	F W	7	1	1			1				1				1					1	1	
	M W	3																				
	F W	3																				

(continued)

TABLE 39 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1978 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
Influenza (470-474)	Total	66								1		2			2	6	2	4	10	12	26	
	M W	31										1			2	4	1	3	3	8	9	
	F W	29								1						2			7	4	15	
	M W F W	1													1		1				2	
Pneumonia (480-486)	Total	1,226	32	4	4	2	7	3	5	5	9	13	29	41	52	61	114	118	165	211	351	
	M W	528	14	1	1	1	3	2	3	2	1	4	12	23	20	24	60	62	83	109	123	
	F W	451	7	2	1	1	3	1	1	1	2	2	8	8	11	19	29	33	67	75	185	
	M W F W	163	7	1	1	1	1	1	1	1	1	1	2	2	13	13	24	16	25	19	21	
Bronchitis, emphysema, and asthma (490-493)	Total	84	4	1	2			1	1	1	4	3	2		2	5	1	8	10	22		
	M W	434	1	2		1	1	3	2	2	1	4	9	14	38	61	73	77	72	39	34	
	F W	246	1	1			1	1	1	2	1	2	3	4	12	30	45	53	44	26	15	
	M W F W	127	1	1			1	1	2	2	1	2	1	2	4	21	22	16	24	8	12	
Peptic ulcer (531-533)	Total	100	1	1							1	2	2	5	15	6	15	15	7	17	11	
	M W	52	1	1							1	1	2	2	5	1	1	9	5	9	3	
	F W	35											1	1	1	1	6	4	1	1	7	
	M W F W	10										1	1	1	1	1	2	2	1	1	8	
Appendicitis (540-543)	Total	18		1								1	1	2		4	1	1	4	2	1	
	M W	6										1	1	1		2	1	1	3	1	1	
	F W	5																				
	M W F W	5										1	1	1		2	2		1	1	1	
Hernia and intestinal obstruction (550-553,560)	Total	109	2							1		4	5	6	2	8	2	13	12	27	12	
	M W	33	2									1	3	1	1	5	3	4	7	9	3	
	F W	46	2							1		2	2	2	2	1	1	2	2	15	5	
	M W F W	17	2							1		2	2	2	2	1	2	2	1	2	3	
Cirrhosis of liver (571)	Total	553	1				1	1	7	13	22	35	73	88	99	77	72	35	16	7	6	
	M W	280							4	5	10	19	31	47	51	33	47	19	10	2	1	
	F W	133							1	1	2	5	16	24	22	25	13	12	4	4	5	
	M W F W	74							1	4	7	6	13	4	15	12	7	3	1	1		
Cholelithiasis, cholecystitis and cholangitis (574,575)	Total	66	1				1		1	4	3	5	13	13	11	7	5	1	1	1		
	M W	53										1		1	2	1	6	5	4	10	23	
	F W	21														1	3	2	2	4	11	
	M W F W	2										1		1	1	1	1	1	2	6		
Nephritis and nephrosis (580-584)	Total	168					1	1	2	3	1	3	4	7	17	15	20	23	32	19	20	
	M W	42							1	1	1	2	1	4	4	6	5	5	5	5	6	
	F W	53					1		1	1	1	1	1	1	1	2	2	6	15	10	10	
	M W F W	40							1	1	1	3	2	1	5	5	6	7	15	4	3	
	Total	33								2			1	1	4	2	5	5	8	2	2	
	M W																					
	F W																					
	M W F W																					

(continued)

TABLE 39 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1978 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
Infections of kidney (590)	Total	60				1							1		2	6	2	4	12	12	16	
	M W	18													2	2	2	2	4	4	6	
	F W	26													1	1	1	1	8	6	8	
	M Nw	5													2	2	1	1	1	1	1	
Hyperplasia of prostate (600)	Total	12				1									2	1	2	1	1	2	1	
	M W	8																4		4	1	
	F W	4													2	3	3	1		4	1	
	M Nw																					
Complications of pregnancy, childbirth, and the puer- perium (630-678)	Total	7					1	2	2	1												
	M W																					
	F W	2					1	1	1	1												
	M Nw	5						3	1	1												
Congenital anomalies (740-759)	Total	295	181	33	9	5	4	6	4	6	2	6	2	2	2	4	2	6	2	2	2	
	M W	123	79	19	3	1	1	1	1	1	2	1	1	1	1	2	1	2	2	2	2	
	F W	98	59	5	3	1	1	5	1	5		2	2	1	2	2	1	3	1	1	1	
	M Nw	40	25	2	2	1	1	1	1	1		1	2	1	1	2	1	1	1	1	1	
Certain causes of mortality in early infancy (760-778)	Total	480	479	7	1	2	4	1	1													1
	M W	148	147																			1
	F W	124	124																			
	M Nw	119	119																			
Symptoms and ill-defined conditions (780-796)	Total	380	129	7	1	1	2	3	6	4	2	6	6	6	2	11	18	21	17	25	32	70
	M W	134	47	4	1	1	1	1	1	2	2	1	3	3	3	5	9	10	4	7	12	23
	F W	126	34	3			3	1	2	1	2	1	1	1	4	2	3	5	6	13	18	32
	M Nw	64	27						4	1	1	3	3	1	1	4	4	3	2	1	5	5
All other diseases (residual)	Total	2,259	42	17	13	11	17	27	32	39	69	98	128	196	275	329	431	391	449	337	357	1
	M W	1,404	19	6	8	3	4	14	17	15	22	32	42	85	128	149	207	207	213	125	124	
	F W	1,073	11	4	2	6	3	11	10	15	13	27	36	48	74	94	131	105	150	153	180	
	M Nw	459	7	4	2	2	6	4	8	8	20	16	29	37	41	56	57	49	53	37	30	1
Accidents (E800-E949)	Total	1,377	52	17	54	69	270	305	151	131	132	106	115	157	172	137	118	118	111	103	136	1
	M W	2,266	7	20	27	32	173	204	92	79	78	56	51	71	73	68	62	53	49	37	34	
	F W	555	5	15	11	12	55	39	27	19	18	12	21	29	22	27	28	34	42	50	89	
	M Nw	446	6	11	12	18	34	49	23	25	33	31	29	37	29	37	19	26	12	10	4	
1. Motor vehicle accidents (E810-E823)	Total	1,081	4	16	32	35	190	209	98	73	64	50	41	54	46	49	33	29	28	12	6	1
	M W	617	2	6	17	13	113	141	63	45	33	28	20	24	28	30	15	15	18	4	2	
	F W	231	3	3	6	6	52	31	16	10	15	10	10	13	10	6	11	9	15	7	4	
	M Nw	184	3	3	8	11	21	28	15	12	15	10	9	14	7	12	5	5	5	2	2	

(continued)

TABLE 39 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1978 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
2. Home accidents (Home) (E850-E949)	Total	554	11	24	13	15	14	18	16	15	25	21	30	38	29	44	52	44	32	46	62	
	M W	219	3	8	6	12	9	10	6	7	12	10	6	14	14	16	23	19	13	13	18	
	F W	182	4	8	2	3	1	2	5	5	3	2	10	10	4	4	14	12	14	26	41	
	M W	103	4	6	2	2	2	5	3	2	9	6	7	7	9	9	9	12	2	3	3	
	F W	50	1	2	3	3	2	1	2	1	1	3	7	4	2	3	6	1	3	4	5	
3. All other accidents (E800-E807, E825-E849, Other) (E850-E949)	Total	769	6	12	9	19	66	78	37	43	43	35	44	55	52	44	33	45	41	44	63	
	M W	430	2	6	4	7	51	53	23	27	33	18	25	33	31	22	24	19	18	20	14	
	F W	142	1	4	3	3	2	6	6	4	9	15	13	16	8	5	3	13	13	17	44	
	M W	159	2	2	2	7	11	16	5	11	9	15	13	13	13	16	4	9	5	5	1	
	F W	38	1	2	2	2	2	3	3	1	1	2	2	3	3	1	2	4	5	2	4	
Suicide (E950-E959)	Total	732				2	26	83	79	75	54	44	56	69	68	46	44	36	25	2	8	
	M W	487				2	29	54	50	46	32	22	37	47	48	33	31	25	20	5	6	
	F W	173				2	3	17	17	21	16	17	15	18	14	9	11	8	3	2	2	
	M W	53				3	3	9	9	7	5	4	3	3	3	3	2	3	2			
	F W	19				1	1	3	3	1	1	1	1	1	1	1	1	1	1			
Homicide (E960-E978)	Total	480	2	7	2	6	34	68	65	65	50	46	26	33	25	22	10	2	2	2	2	
	M W	165				2	10	25	25	16	20	14	9	13	13	8	3	3	3	2	2	
	F W	71	2			2	10	9	4	10	8	9	3	3	4	3	1	2	1	2	2	
	M W	193		3	2	2	11	31	28	34	16	18	10	15	6	10	5	2	2	1	1	
	F W	51		4		2	3	3	8	5	6	5	4	2	1	4	1	2	1	1	1	
Other external causes (E980-E999)	Total	36	2			1	1	2	2	6	2	1	3	6	1	3	1	1	1		1	
	M W	25	1			1	1	2	3	6	2	1	2	2	2	2	1	1	1		1	
	F W	6	1					1					1	1	1	1						
	M W	1																				
	F W	5	1																			

TABLE 40 - FIVE LEADING CAUSES OF DEATH IN SPECIFIED AGE GROUPS BY RACE, VIRGINIA, 1978

Age at Death	Total		White		Nonwhite	
	Number	Percent	Number	Percent	Number	Percent
<u>Under 1 year</u>						
All causes	989	100.0	611	100.0	378	100.0
Certain causes of mortality in early infancy (760-778) ..	479	48.4	271	44.4	208	55.0
Congenital anomalies (740-759)	181	18.3	138	22.6	43	11.4
Influenza and pneumonia (470-474,480-486)	32	3.3	21	3.4	11	2.9
Septicemia (038)	29	2.9	18	2.9	11	2.9
Diseases of heart (390-398,402,404,410-429)	22	2.2	12	2.0	10	2.7
All other causes	246	24.9	151	24.7	95	25.1
<u>1-4 years</u>						
All causes	166	100.0	110	100.0	56	100.0
All accidents (E800-E949)	52	31.3	35	31.8	17	30.3
Congenital anomalies (740-759)	33	19.9	24	21.8	9	16.1
Malignant neoplasms (140-209)	15	9.1	13	11.8	2	3.6
Diseases of heart (390-398,402,404,410-429)	8	4.8	3	2.8	5	8.9
Homicide (E960-E978)	7	4.2		0.0	7	12.5
All other causes	51	30.7	35	31.8	16	28.6
<u>5-14 years</u>						
All causes	254	100.0	172	100.0	82	100.0
All accidents (E800-E949)	123	48.4	82	47.7	41	50.0
Malignant neoplasms (140-209)	30	11.8	22	12.8	8	9.7
Congenital anomalies (740-759)	14	5.5	8	4.7	6	7.3
Homicide (E960-E978)	8	3.2	4	2.3	4	4.9
Diseases of heart (390-398,402,404,410-429)	7	2.8	4	2.3	3	3.7
All other causes	72	28.3	52	30.2	20	24.4
<u>15-24 years</u>						
All causes	994	100.0	763	100.0	231	100.0
All accidents (E800-E949)	575	57.8	471	61.7	104	45.0
Suicide (E950-E959)	119	12.0	103	13.5	16	6.9
Homicide (E960-E978)	102	10.3	54	7.1	48	20.8
Malignant neoplasms (140-209)	66	6.6	53	7.0	13	5.6
Diseases of heart (390-398,402,404,410-429)	22	2.2	10	1.3	12	5.2
All other causes	110	11.1	72	9.4	38	16.5
<u>25-44 years</u>						
All causes	2,439	100.0	1,676	100.0	763	100.0
All accidents (E800-E949)	520	21.3	381	22.7	139	18.2
Diseases of heart (390-398,402,404,410-429)	429	17.6	312	18.6	117	15.3
Malignant neoplasms (140-209)	406	16.6	306	18.3	100	13.1
Suicide (E950-E959)	252	10.3	221	13.2	31	4.1
Homicide (E960-E978)	226	9.3	106	6.3	120	15.7
All other causes	606	24.9	350	20.9	256	33.6
<u>45-64 years</u>						
All causes	10,653	100.0	7,811	100.0	2,842	100.0
Diseases of heart (390-398,402,404,410-429)	3,854	36.2	2,923	37.4	931	32.6
Malignant neoplasms (140-209)	3,070	28.8	2,324	29.8	746	26.2
Cerebrovascular disease (430-438)	568	5.3	341	4.4	227	8.0
All accidents (E800-E949)	526	4.9	362	4.6	164	5.8
Cirrhosis of liver (571)	337	3.2	249	3.2	88	3.1
All other causes	2,298	21.6	1,612	20.6	686	24.1
<u>65-74 years</u>						
All causes	9,874	100.0	7,626	100.0	2,248	100.0
Diseases of heart (390-398,402,404,410-429)	4,042	41.0	3,184	41.8	858	38.2
Malignant neoplasms (140-209)	2,471	25.0	1,910	25.0	561	25.0
Cerebrovascular disease (430-438)	880	8.9	612	8.0	268	11.9
Influenza and pneumonia (470-474,480-486)	238	2.4	188	2.5	50	2.2
All accidents (E800-E949)	236	2.4	177	2.3	59	2.6
All other causes	2,007	20.3	1,555	20.4	452	20.1
<u>75 and over</u>						
All causes	15,269	100.0	12,724	100.0	2,545	100.0
Diseases of heart (390-398,402,404,410-429)	6,889	45.1	5,821	45.8	1,068	42.0
Cerebrovascular disease (430-438)	2,208	14.5	1,835	14.4	373	14.6
Malignant neoplasms (140-209)	2,058	13.5	1,664	13.1	394	15.5
Influenza and pneumonia (470-474,480-486)	727	4.8	622	4.9	105	4.1
Arteriosclerosis (440)	447	2.9	374	2.9	73	2.9
All other causes	2,940	19.2	2,408	18.9	532	20.9

TABLE 41 - RESIDENT ACCIDENTAL DEATHS BY AGE, BY TYPE OF ACCIDENT, VIRGINIA, 1978

Type of Accident	Total	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-34 Years	35-44 Years	45-54 Years	55-64 Years	65-74 Years	75-84 Years	85 & Over	Unknown
TOTAL DEATHS DUE TO ACCIDENTS	2,349	21	51	53	66	268	303	279	234	258	254	226	203	132	1
Railway (E800-E807)	15														
Motor vehicle (E810-E823)	1,081	4	16	32	35	190	209	171	114	95	95	62	51	6	1
Other road vehicle (E825-E827)	5		1												
Water transport (E830-E838)	33	1				4	5	10	4	6	4	1			
Aircraft (E840-E845)	25						3	7	6	4	4				
Poisoning, drugs (E850-E859)	34					2	4	12	2	5	2	2	2	2	
Poisoning, solids and liquids (E860-E869)	75					1	2	5	14	24	24	4	1		
Poisoning, gases and vapors (E870-E877)	24					4	3	1	4	2	2	2	1	2	
Falls (E880-E887)	373	1	1	1	1	6	10	8	15	31	33	67	98	101	
Fires (E890-E899)	175	1	16	10	4	2	10	13	16	22	29	29	14	9	
Excessive heat, cold, exposure (E900-E904)	49	2				1	1	2	5	11	12	11	2	2	
Insects and animals (E905-E906)	4									1	1	1	2		
Lightning and cataclysm (E907-E908)	5							3							
Other environmental factors (E909)	1									1					
Drowning and submersion (E910)	127	1	9	7	9	28	25	10	7	8	9	8	6		
Suffocation from inhaled or ingested object (E911-E912)	65	3	3	1	2	2	2	3	4	6	9	11	15	6	
Mechanical suffocation (bed, cradle, other) (E913)	29	6	2		4	3	4	7	14	11	7	17	1		
Falling or projected object (E916-E918)	77				1	7	8	11				1			
Over-exertion (E919)	1								3		2				
Cutting or piercing instruments (E920)	7														
Explosion of pressure vessel (E921)	1						1								
Firearms (E922)	36		1	1	3	10	7	4	6	2	2				
Explosive materials (E923)	9						2	2	3	4					
Hot substance, corrosive liquid, steam (E924)	5							1	2	3	1				
Electric current (E925)	25	1				3	5	4	6	3	3				
Vehicles and machinery not elsewhere classifiable (E927-E928)	25				1	2	4	3	5	6	9	5	8	2	
Other and unspecified (E929)	43	1	1												

NOTE: Excludes deaths from accidental complications in medical, surgical, and therapeutic procedures, or from late effects of accidental injury and poisoning.

TABLE 42 - RESIDENT HOME ACCIDENTS BY AGE, BY TYPE OF ACCIDENT, VIRGINIA, 1978
(Included in above tabulation of all accidental deaths)

TOTAL DEATHS DUE TO ACCIDENTS IN THE HOME	55+	11	24	13	14	14	18	31	46	68	73	96	76	67	-
Poisoning, drugs (E850-E859)	18					1	1	2	6	1	3	1	1	2	
Poisoning, solids, and liquids (E860-E869)	39					1	1	1	3	11	10	4	4		
Poisoning, gases and vapors (E870-E877)	14					1	2	2	1	2	1	1	1	1	
Falls (E880-E887)	208		1					4	6	22	20	47	51	56	
Fires (E890-E899)	159	1	15	9	4	2	7	12	14	20	28	26	13	8	
Excessive heat, cold, exposure (E900-E904)	15	1								4	3	5	1	1	
Insects and animals (E905-E906)	1														
Drowning and submersion (E910)	20	1	4	2	1	1			2	2	3	4	3	1	
Suffocation from inhaled or ingested object (E911-E912)	16	1	2	1		1	1			2	2	2	1	1	
Mechanical suffocation (bed, cradle, other) (E913)	11	6	1		3										
Falling or projected object (E916-E918)	16						2	1	4		2	5	1		
Over-exertion (E919)	1														
Cutting or piercing instrument (E920)	19		1	1	2	6	3	3	2	1					
Firearms (E922)	4														
Explosive materials (E923)	3														
Hot substance, corrosive liquid, steam (E924)	1	1													
Electric current (E925)	1														
Vehicles and machinery not elsewhere classifiable (E927-E928)	2														
Other and unspecified (E929)	2														

NOTE: Excludes deaths on the home premises from road vehicles and from late effects of accidental injury and poisoning.

TABLE 43
DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE
BY RACE BY CAUSE, VIRGINIA, 1978

Cause of Death	STATE OF VIRGINIA					
	Place of Occurrence			Place of Residence		
	Total	White	Nonwhite	Total	White	Nonwhite
All causes	40,196	30,999	9,197	40,649	31,497	9,152
1 Bacillary dysentery and amebiasis ... 004,006	1		1			
2 Enteritis & other diarrheal diseases. 008,009	32	21	11	31	19	12
3 Tuberculosis, all forms 010-019	64	32	32	60	30	30
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036	9	6	3	9	7	2
7 Septicemia 038	272	174	98	277	181	96
8 Acute poliomyelitis 040-043						
9 Measles 055	1	1		1	1	
10 Syphilis and its sequelae 090-097	7	3	4	8	4	4
11 Other infective & parasitic diseases Residual	96	64	32	98	65	33
12 Malignant neoplasms 140-209	7,926	6,109	1,817	8,117	6,292	1,825
13 Buccal cavity and pharynx 140-149	175	124	51	184	132	52
14 Digestive organs and peritoneum ... 150-159	1,966	1,471	495	1,998	1,501	497
15 Respiratory system 160-163	2,229	1,781	448	2,287	1,836	451
16 Breast 174	645	522	123	650	525	125
17 Genital organs 180-187	848	594	254	870	616	254
18 Urinary organs 188,189	332	264	68	337	270	67
19 Other and unspecified sites. 170-173, 190-199	1,083	831	252	1,105	856	249
20 Leukemia 204-207	269	224	45	292	243	49
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	379	298	81	394	313	81
22 Benign neoplasms and neoplasms of unspecified nature 210-239	95	74	21	99	79	20
23 Diabetes mellitus 250	618	392	226	629	401	228
24 Avitaminoses and other nutritional deficiencies 260-269	59	44	15	57	43	14
25 Anemias 280-285	63	39	24	72	47	25
26 Meningitis 320	39	27	12	40	28	12
27 Major cardiovascular diseases 390-448	20,112	15,947	4,165	20,260	16,113	4,147
28 Diseases of heart 390-398, 402, 404, 410-429	15,163	12,138	3,025	15,275	12,270	3,005
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	227	183	44	233	190	43
30 Hypertensive heart disease 402	118	70	48	118	72	46
31 Hypertensive heart and renal disease. 404	85	47	38	84	48	36
32 Ischemic heart disease 410-414	13,164	10,733	2,431	13,271	10,850	2,421
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	167	102	65	167	102	65
34 All other forms of heart disease 420-423, 425-427, 429	1,402	1,003	399	1,402	1,008	394
35 Hypertension 400,401,403	108	65	43	110	70	40
36 Cerebrovascular disease 430-438	3,724	2,827	897	3,746	2,846	900
37 Arteriosclerosis 440	556	454	102	563	459	104
38 Other diseases of arteries, arterioles, and capillaries 441-448	561	463	98	566	468	98
39 Acute bronchitis and bronchiolitis 466	17	14	3	19	16	3
40 Influenza 470-474	67	60	7	66	60	6
41 Pneumonia 480-486	1,185	942	243	1,226	979	247
42 Bronchitis, emphysema, and asthma ... 490-493	436	377	59	434	373	61
43 Peptic ulcer 531-533	96	83	13	100	87	13
44 Appendicitis 540-543	18	11	7	18	11	7
45 Hernia & intestinal obstruction . 550-553,560	107	77	30	109	79	30
46 Cirrhosis of liver 571	540	400	140	553	413	140
47 Cholelithiasis, cholecystitis and cholangitis 574,575	52	41	11	53	42	11
48 Nephritis and nephrosis 580-584	174	99	75	168	95	73
49 Infections of kidney 590	57	41	16	60	44	16
50 Hyperplasia of prostate 600	12	8	4	12	8	4
51 Complications of pregnancy, childbirth, and the puerperium 630-678	7	2	5	7	2	5
52 Congenital anomalies 740-759	275	204	71	295	221	74
53 Certain causes of mortality in early infancy 760-778	473	264	209	480	272	208
54 Symptoms and ill-defined conditions . 780-796	362	244	118	380	260	120
55 All other diseases Residual	3,225	2,438	787	3,259	2,477	782
56 Accidents E800-E949	2,460	1,844	616	2,404	1,821	583
57 Motor vehicle accidents E810-E823	1,116	865	251	1,081	848	233
58 Home accidents (Home) E850-E949	560	407	153	554	401	153
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	784	572	212	769	572	197
60 Suicide E950-E959	736	664	72	732	660	72
61 Homicide E960-E978	480	233	247	480	236	244
62 Other external causes E980-E999	23	20	3	36	31	5

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 1

Cause of Death	Planning District 1			Lee		Scott		Wise		Norton	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,014	995	19	107	3	228		405	14	55	2
1 Bacillary dysentery and amebiasis ... 004,006											
2 Enteritis & other diarrheal diseases. 008,009	3	2	1	1				1	1		
3 Tuberculosis, all forms 010-019	3	3		2		1					
4 Whooping cough 033											
5 Strep. sore throat and scarlet fever 034											
6 Meningococcal infections 036											
7 Septicemia 038	3	3		3							
8 Acute poliomyelitis 040-043											
9 Measles 055											
10 Syphilis and its sequelae 090-097											
11 Other infective & parasitic diseases Residual											
12 Malignant neoplasms 140-209	179	177	2	53	1	34		78	1	12	
13 Buccal cavity and pharynx 140-149	1	1									
14 Digestive organs and peritoneum ... 150-159	44	44		14		8		19		3	
15 Respiratory system 160-163	60	60		18		13		26		3	
16 Breast 174	13	13		3		1		7		2	
17 Genital organs 180-187	23	22	1	7	1	5		8		2	
18 Urinary organs 188,189	7	7		3		2		2			
19 Other and unspecified sites. 170-173, 190-199	20	19	1	5		3		9	1	2	
20 Leukemia 204-207	5	5				2		3			
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	6	6		3				3			
22 Benign neoplasms and neoplasms of unspecified nature 210-239	4	4				1		3			
23 Diabetes mellitus 250	22	20	2	6		1		13	1		1
24 Avitaminoses and other nutritional deficiencies 260-269	1	1						1			
25 Anemias 280-285											
26 Meningitis 320											
27 Major cardiovascular diseases 390-448	504	497	7	159	2	131		179	5	28	
28 Diseases of heart 390-398, 402, 404, 410-429	405	399	6	124	1	100		155	5	22	
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	5	5		2		3					
30 Hypertensive heart disease 402											
31 Hypertensive heart and renal disease. 404											
32 Ischemic heart disease 410-414	373	367	6	109	1	93		145	5	20	
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	1	1		1							
34 All other forms of heart disease 420-423, 425-427, 429	26	26		12		4		8		2	
35 Hypertension 400,401,403	5	5		3		1		1			
36 Cerebrovascular disease 430-438	69	68	1	27	1	22		15		4	
37 Arteriosclerosis 440	13	13		5		4		3			
38 Other diseases of arteries, arterioles, and capillaries 441-448	12	12				4		7		1	
39 Acute bronchitis and bronchiolitis 466	2	2				1		1			
40 Influenza 470-474	2	2		2							
41 Pneumonia 480-486	36	36		14		14		3			
42 Bronchitis, emphysema, and asthma ... 490-493	17	16	1	4				11	1	1	
43 Peptic ulcer 531-533	1	1								1	
44 Appendicitis 540-543											
45 Hernia & intestinal obstruction . 550-553,560	1	1						1			
46 Cirrhosis of liver 571	14	11		1		1		8		1	
47 Cholelithiasis, cholecystitis and cholangitis 574,575	3	3				2		1			
48 Nephritis and nephrosis 580-584	3	3		1				2			
49 Infections of kidney 590	3	3		1						2	
50 Hyperplasia of prostate 600											
51 Complications of pregnancy, childbirth, and the puerperium 630-678											
52 Congenital anomalies 740-759	11	10	1	2		1		7			1
53 Certain causes of mortality in early infancy 760-778	12	11	1			1		7	1	3	
54 Symptoms and ill-defined conditions . 780-796	7	7		3		1		3			
55 All other diseases Residual	88	86	2	22		16		43	2	5	
56 Accidents E800-E949	60	60		18		13		28		1	
57 Motor vehicle accidents E810-E823	29	29		12		6		10		1	
58 Home accidents (Home) E850-E949	11	11		2		2		7			
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	20	20		4		5		11			
60 Suicide E950-E959	24	23	1	9		8		6	1		
61 Homicide E960-E978	14	13	1	6		2		4	1	1	
62 Other external causes E980-E999											

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 2

Cause of Death	Planning District 2			Buchanan		Dickenson		Russell		Tazewell	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,075	1,051	24	245	1	141	2	249	2	416	19
1 Bacillary dysentery and amebiasis ... 004,006											
2 Enteritis & other diarrheal diseases. 008,009	1	1						2		1	
3 Tuberculosis, all forms 010-019	3	3								1	
4 Whooping cough 033											
5 Strep. sore throat and scarlet fever 034											
6 Meningococcal infections 036	1	1		1							
7 Septicemia 038	13	13		5		2		3		3	
8 Acute poliomyelitis 040-043											
9 Measles 055											
10 Syphilis and its sequelae 090-097											
11 Other infective & parasitic diseases Residual	2	2									
12 Malignant neoplasms 140-209	193	189	4	33		33		49		74	4
13 Buccal cavity and pharynx 140-149	1	1									
14 Digestive organs and peritoneum ... 150-159	40	38	2	7		4		10		17	2
15 Respiratory system 160-163	68	68		12		11		17		28	
16 Breast 174	14	13	1	3		1		3		6	1
17 Genital organs 180-187	13	13		1		3		4		5	
18 Urinary organs 188,189	5	5				2		1		2	
19 Other and unspecified sites.170-173,190-199	33	32	1	5		8		12		7	1
20 Leukemia 204-207	6	6		1		2		1		2	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	13	13		4		2		1		6	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	3	3								3	
23 Diabetes mellitus 250	14	12	2	2				5	1	5	1
24 Avitaminoses and other nutritional deficiencies 260-269											
25 Anemias 280-285	1	1									
26 Meningitis 320	1	1		1							
27 Major cardiovascular diseases 390-448	521	521	10	126		72	1	122	1	201	3
28 Diseases of heart 390-398,402,404,410-429	430	424	6	104		55	1	100	1	195	-
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	9	9		1		1		4		3	
30 Hypertensive heart disease 402	3	3								3	
31 Hypertensive heart and renal disease. 404											
32 Ischemic heart disease 410-414	392	386	6	98		53	1	89	1	146	4
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	2	2								2	
34 All other forms of heart disease 420-423,425-427,429	24	24		5		1		7		11	
35 Hypertension 400,401,403	1	1						1			
36 Cerebrovascular disease 430-438	84	80	4	19		14		18		29	4
37 Arteriosclerosis 440	6	6				1		1		4	
38 Other diseases of arteries, arterioles, and capillaries 441-448	10	10		3		2		2		3	
39 Acute bronchitis and bronchiolitis 466											
40 Influenza 470-474											
41 Pneumonia 480-486	27	25	2	5				8		12	2
42 Bronchitis, emphysema, and asthma ... 490-493	12	12		3		4				3	
43 Peptic ulcer 531-533	6	6		1		1		2		2	
44 Appendicitis 540-543											
45 Hernia & intestinal obstruction . 550-553,560	4	4						3		1	
46 Cirrhosis of liver 571	13	12	1	1		1		4		6	1
47 Cholelithiasis, cholecystitis and cholangitis 574,575											
48 Nephritis and nephrosis 580-584	6	5	1					2		3	1
49 Infections of kidney 590	1	1		1							
50 Hyperplasia of prostate 600											
51 Complications of pregnancy, childbirth, and the puerperium 630-678											
52 Congenital anomalies 740-759	5	4	1	3				1			1
53 Certain causes of mortality in early infancy 760-778	16	16		11				2		3	
54 Symptoms and ill-defined conditions . 780-796	15	14	1	2	1	2		3		7	
55 All other diseases Residual	101	100	1	20		13	1	15		52	
56 Accidents E800-E949	77	76	1	21		9		18		28	1
57 Motor vehicle accidents E810-E823	31	31		9		6		8		8	
58 Home accidents (Home) E850-E949	11	11		2				1		3	
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	35	34	1	10		3		9		12	1
60 Suicide E950-E959	19	19		3		2		8		6	
61 Homicide E960-E978	8	8		6				1		1	
62 Other external causes E980-E999	2	2				1				1	

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 3

Cause of Death	Planning District 3			Bland		Carroll		Grayson		Smyth	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,743	1,678	65	52	1	232	1	170	4	311	8
1 Bacillary dysentery and amebiasis ... 004,006											
2 Enteritis & other diarrheal diseases. 008,009											
3 Tuberculosis, all forms 010-019	1	1									
4 Whooping cough 033											
5 Strep. sore throat and scarlet fever 034											
6 Meningococcal infections 036	1	1						1			
7 Septicemia 038	5	5				1				2	
8 Acute poliomyelitis 040-043											
9 Measles 055											
10 Syphilis and its sequelae 090-097	1										
11 Other infective & parasitic diseases Residual	2	2									
12 Malignant neoplasms 140-209	295	280	15	11		31	1	32		48	2
13 Buccal cavity and pharynx 140-149	10	9	1			1		2		2	
14 Digestive organs and peritoneum ... 150-159	80	77	3	4		7		13		15	1
15 Respiratory system 160-163	78	75	3	3		6	1	5		13	
16 Breast 174	18	16	2			1		2		2	
17 Genital organs 180-187	33	32	1	1		6		3		5	
18 Urinary organs 188,189	15	13	2	1		3		4		9	1
19 Other and unspecified sites.170-173,190-199	40	38	2	2		7		1		1	
20 Leukemia 204-207	7	7									
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	14	13	1					1			
22 Benign neoplasms and neoplasms of unspecified nature 210-239	5	5		1		1				1	
23 Diabetes mellitus 250	29	24	5	1		2		1		5	
24 Avitaminoses and other nutritional deficiencies 260-269	2	2								2	
25 Anemias 280-285	4	4				1		1			
26 Meningitis 320	3	3								1	
27 Major cardiovascular diseases 390-448	927	899	28	28		130		31	3	176	4
28 Diseases of heart . 390-398,402,404,410-429	709	692	17	22		92		55	3	148	4
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	17	17		1				1		4	
30 Hypertensive heart disease 402	7	7		1				1		2	
31 Hypertensive heart and renal disease. 404	3	3								1	
32 Ischemic heart disease 410-414	628	613	15	17		84		46	3	131	2
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	3	3		1				1			
34 All other forms of heart disease 420-423,425-427,429	51	49	2	2		3		6		10	2
35 Hypertension 400,401,403	8	8								1	
36 Cerebrovascular disease 430-438	167	159	8	2		29		19		23	
37 Arteriosclerosis 440	18	17	1			7		3			
38 Other diseases of arteries, arterioles, and capillaries 441-448	25	23	2	4		2		4		4	
39 Acute bronchitis and bronchiolitis 466											
40 Influenza 470-474	1	1									
41 Pneumonia 480-486	80	76	4	1	1	10		7		17	
42 Bronchitis, emphysema, and asthma ... 490-493	20	20				2		5		6	
43 Peptic ulcer 531-533	10	10				2				1	
44 Appendicitis 540-543	1	1				1					
45 Hernia & intestinal obstruction . 550-553,560	8	7	1			2		1		2	
46 Cirrhosis of liver 571	9	9				1				2	
47 Cholelithiasis, cholecystitis and cholangitis 574,575	4	4						2			
48 Nephritis and nephrosis 580-584	8	8				1		2		1	
49 Infections of kidney 590	2	2				1					
50 Hyperplasia of prostate 600	1	1						1			
51 Complications of pregnancy, childbirth, and the puerperium 630-678											
52 Congenital anomalies 740-759	9	8	1			1		1		1	
53 Certain causes of mortality in early infancy 760-778	19	18	1	1				1		3	1
54 Symptoms and ill-defined conditions . 780-796	22	21	1	1		3		3		2	
55 All other diseases Residual	141	136	5	2		21		15		29	1
56 Accidents E800-E949	92	90	2	3		15		12	1	9	
57 Motor vehicle accidents E810-E823	36	36		2		7		5		2	
58 Home accidents (Home) E850-E949	15	15				2		4		1	
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	41	39	2	1		6		3	1	6	
60 Suicide E950-E959	29	29		2		5		3		2	
61 Homicide E960-E978	3	2	1								
62 Other external causes E980-E999	9	8	1	1		1		1		1	

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 3 (continued)

Cause of Death	Washington		Wythe		Bristol		Galax	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	396	12	236	14	210	21	71	4
1 Bacillary dysentery and amebiasis ... 004,006								
2 Enteritis & other diarrheal diseases. 008,009								
3 Tuberculosis, all forms 010-019	1							
4 Whooping cough 033								
5 Strep. sore throat and scarlet fever 034								
6 Meningococcal infections 036								
7 Septicemia 038	1				1			
8 Acute poliomyelitis 040-043								
9 Measles 055								
10 Syphilis and its sequelae 090-097					1			
11 Other infective & parasitic diseases Residual	1		1					
12 Malignant neoplasms 140-209	70	2	34	4	37	5	17	1
13 Buccal cavity and pharynx 140-149	3			1	1			
14 Digestive organs and peritoneum ... 150-159	16		7		10	1	5	1
15 Respiratory system 160-163	18		16	1	10	1	4	
16 Breast 174	7	1	1		3	1		
17 Genital organs 180-187	8		3	1	6			
18 Urinary organs 188,189	3			1	3	1	2	
19 Other and unspecified sites. 170-173, 190-199	8	1	3		3		2	
20 Leukemia 204-207	2		1				2	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	5		3		1	1	2	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	2							
23 Diabetes mellitus 250	5	2	5	3	4			
24 Avitaminoses and other nutritional deficiencies 260-269								
25 Anemias 280-285			1		1			
26 Meningitis 320	2							
27 Major cardiovascular diseases 390-448	207	3	117	5	117	12	43	
28 Diseases of heart . 390-398, 402, 404, 410-429	158	2	95	3	91	4	31	
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	3		4		4			
30 Hypertensive heart disease 402	1		1		1			
31 Hypertensive heart and renal disease. 404			2					
32 Ischemic heart disease 410-414	142	2	82	3	82	4	29	1
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	1							
34 All other forms of heart disease 420-423, 425-427, 429	11		6		4		2	
35 Hypertension 400,401,403	3		3		1			
36 Cerebrovascular disease 430-438	41		15	1	20	7	10	
37 Arteriosclerosis 440	1	1	1		3		2	
38 Other diseases of arteries, arterioles, and capillaries 441-448	4		3	1	2	1		
39 Acute bronchitis and bronchiolitis 466								
40 Influenza 470-474			1					
41 Pneumonia 480-486	19	2	9	1	13			
42 Bronchitis, emphysema, and asthma ... 490-493	3		4					
43 Peptic ulcer 531-533	1		5		1			
44 Appendicitis 540-543								
45 Hernia & intestinal obstruction . 550-553,560	1	1	1					
46 Cirrhosis of liver 571	1		4		1			
47 Cholelithiasis, cholecystitis and cholangitis 574,575					2			
48 Nephritis and nephrosis 580-584	3						1	
49 Infections of kidney 590					1			
50 Hyperplasia of prostate 600								
51 Complications of pregnancy, childbirth, and the puerperium 630-678								
52 Congenital anomalies 740-759	3				2	1		
53 Certain causes of mortality in early infancy 760-778	2		7		4			
54 Symptoms and ill-defined conditions . 780-796	2		6	1	3		1	
55 All other diseases Residual	40	2	18		8		3	2
56 Accidents E800-E949	22		20		6	1	3	
57 Motor vehicle accidents E810-E823	6		10		3			
58 Home accidents (Home) E850-E949	4		3				1	
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	12		7		3	1	1	
60 Suicide E950-E959	7		2		6		2	
61 Homicide E960-E978	1		1			1		
62 Other external causes E980-E999	2				2	1		

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 4

Cause of Death	Planning District 4			Floyd		Giles	
	Total	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,063	1,007	56	91	4	194	4
1 Bacillary dysentery and amebiasis ... 004,006							
2 Enteritis & other diarrheal diseases. 008,009							
3 Tuberculosis, all forms 010-019	1	1				1	
4 Whooping cough 033							
5 Strep. sore throat and scarlet fever 034							
6 Meningococcal infections 036	1	1					
7 Septicemia 038	5	5					
8 Acute poliomyelitis 040-043							
9 Measles 055							
10 Syphilis and its sequelae 090-097							
11 Other infective & parasitic diseases Residual	1	1					
12 Malignant neoplasms 140-209	207	199	8	17	1	42	
13 Buccal cavity and pharynx 140-149	4	4					
14 Digestive organs and peritoneum ... 150-159	41	41		5		5	
15 Respiratory system 160-163	58	56	2	5		19	
16 Breast 174	19	17	2			1	
17 Genital organs 180-187	28	28		2		6	
18 Urinary organs 188,189	8	7	1	1	1	1	
19 Other and unspecified sites. 170-173,190-199	33	30	3	2		5	
20 Leukemia 204-207	9	9		2			
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	7	7				1	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	5	5		1		2	
23 Diabetes mellitus 250	23	19	4	1		2	1
24 Avitaminoses and other nutritional deficiencies 260-269	1	1				1	
25 Anemias 280-285	1	1					
26 Meningitis 320							
27 Major cardiovascular diseases 390-448	530	502	28	39	2	93	2
28 Diseases of heart . 390-398,402,404,410-429	404	386	18	31	2	73	2
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	5	5		2		1	
30 Hypertensive heart disease 402	1	1				1	
31 Hypertensive heart and renal disease. 404							
32 Ischemic heart disease 410-414	359	343	16	27	2	65	2
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	2	1	1			1	
34 All other forms of heart disease 420-423,425-427,429	37	36	1	2		5	
35 Hypertension 400,401,403	2	2					
36 Cerebrovascular disease 430-438	98	91	7	5		14	
37 Arteriosclerosis 440	7	6	1	2			
38 Other diseases of arteries, arterioles, and capillaries 441-448	19	17	2	1		5	
39 Acute bronchitis and bronchiolitis 466							
40 Influenza 470-474							
41 Pneumonia 480-486	33	31	2	5		4	
42 Bronchitis, emphysema, and asthma ... 490-493	7	7				3	
43 Peptic ulcer 531-533							
44 Appendicitis 540-543							
45 Hernia & intestinal obstruction . 550-553,560	3	2	1	1			
46 Cirrhosis of liver 571	13	13		1		3	
47 Cholelithiasis, cholecystitis and cholangitis 574,575							
48 Nephritis and nephrosis 580-584	4	3	1			1	
49 Infections of kidney 590	1		1				
50 Hyperplasia of prostate 600							
51 Complications of pregnancy, childbirth, and the puerperium 630-678							
52 Congenital anomalies 740-759	7	7				1	
53 Certain causes of mortality in early infancy 760-778	12	11	1			3	1
54 Symptoms and ill-defined conditions . 780-796	10	10		2		3	
55 All other diseases Residual	100	95	5	11	1	16	
56 Accidents E800-E949	69	65	4	10		11	
57 Motor vehicle accidents E810-E823	33	33		7		4	
58 Home accidents (Home) E850-E949	6	6				1	
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	30	26	4	3		6	
60 Suicide E950-E959	18	18		1		6	
61 Homicide E960-E978	11	10	1	2		2	
62 Other external causes E980-E999							

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 4 (continued)

Cause of Death	Montgomery		Pulaski		Radford	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	326	14	304	29	92	5
1 Bacillary dysentery and amebiasis ... 004,006						
2 Enteritis & other diarrheal diseases. 008,009						
3 Tuberculosis, all forms 010-019						
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036			1			
7 Septicemia 038	3		2			
8 Acute poliomyelitis 040-043						
9 Measles 055						
10 Syphilis and its sequelae 090-097						
11 Other infective & parasitic diseases Residual					1	
12 Malignant neoplasms 140-209	67	2	56	4	17	1
13 Buccal cavity and pharynx 140-149						
14 Digestive organs and peritoneum ... 150-159	15		13		3	
15 Respiratory system 160-163	16	1	13	1	3	
16 Breast 174	7		6	2	3	
17 Genital organs 180-187	6		12		2	
18 Urinary organs 188,189	5					
19 Other and unspecified sites.170-173,190-199	13	1	7	1	3	1
20 Leukemia 204-207	2		3		2	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	3		2		1	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	1		1			
23 Diabetes mellitus 250	7		8	2	1	1
24 Avitaminoses and other nutritional deficiencies 260-269						
25 Anemias 280-285	1					
26 Meningitis 320						
27 Major cardiovascular diseases 390-448	166	8	148	14	56	2
28 Diseases of heart . 390-398,402,404,410-429	129	3	111	9	42	2
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	2					
30 Hypertensive heart disease 402						
31 Hypertensive heart and renal disease. 404						
32 Ischemic heart disease 410-414	111	3	102	9	38	
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428						1
34 All other forms of heart disease 420-423,425-427,429	16		9		4	1
35 Hypertension 400,401,403					1	
36 Cerebrovascular disease 430-438	32	4	30	3	10	
37 Arteriosclerosis 440	2	1	1		1	
38 Other diseases of arteries, arterioles, and capillaries 441-448	3		6	2	2	
39 Acute bronchitis and bronchiolitis 466						
40 Influenza 470-474						
41 Pneumonia 480-486	13		7	2	2	
42 Bronchitis, emphysema, and asthma ... 490-493	1		3			
43 Peptic ulcer 531-533						
44 Appendicitis 540-543						
45 Hernia & intestinal obstruction . 550-553,560			1	1		
46 Cirrhosis of liver 571	5		3		1	
47 Cholelithiasis, cholecystitis and cholangitis 574,575						
48 Nephritis and nephrosis 580-584	1		1	1		
49 Infections of kidney 590		1				
50 Hyperplasia of prostate 600						
51 Complications of pregnancy, childbirth, and the puerperium 630-678						
52 Congenital anomalies 740-759	3		2		1	
53 Certain causes of mortality in early infancy 760-778	2		6			
54 Symptoms and ill-defined conditions . 780-796	4		1			
55 All other diseases Residual	30	2	34	2	4	
56 Accidents E800-E949	18		22	3	4	1
57 Motor vehicle accidents E810-E823	5		14		3	
58 Home accidents (Home) E850-E949	4		1			
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	9		7	3	1	1
60 Suicide E950-E959	3		5		3	
61 Homicide E960-E978	1	1	3		2	
62 Other external causes E980-E999						

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 5

Cause of Death	Planning District 5			Alleghany		Botetourt		Craig		Roanoke	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	2,420	2,125	295	111	7	186	9	36		438	16
1 Bacillary dysentery and amebiasis ... 004,006											
2 Enteritis & other diarrheal diseases. 008,009	1	1									
3 Tuberculosis, all forms 010-019	3	2	1								
4 Whooping cough 033											
5 Strep. sore throat and scarlet fever 034											
6 Meningococcal infections 036	1	1									
7 Septicemia 038	14	13	1							4	
8 Acute poliomyelitis 040-043											
9 Measles 055											
10 Syphilis and its sequelae 090-097											
11 Other infective & parasitic diseases Residual	3	3						1		1	
12 Malignant neoplasms 140-209	457	396	61	19	2	41	2	7		30	3
13 Buccal cavity and pharynx 140-149	12	11	1	1						1	
14 Digestive organs and peritoneum ... 150-159	129	110	19	6	1	11		2		29	1
15 Respiratory system 160-163	130	120	10	5		16		3		23	
16 Breast 174	32	28	4	1	1	1				9	
17 Genital organs 180-187	49	35	14	1		5	1	1		8	
18 Urinary organs 188,189	16	14	2			1	1			3	
19 Other and unspecified sites,170-173,190-199	47	43	4	2		5		1		11	
20 Leukemia 204-207	20	19	1	1		2				4	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	22	16	6	2						2	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	6	6								1	
23 Diabetes mellitus 250	27	19	8		1	2	1			6	1
24 Avitaminoses and other nutritional deficiencies 260-269	7	7		1						3	
25 Anemias 280-285	6	4	2								
26 Meningitis 320	4	3	1							2	
27 Major cardiovascular diseases 390-448	1,280	1,150	130	56	2	107	5	20		235	7
28 Diseases of heart . 390-398,402,404,410-429	949	858	91	47	2	75	4	14		181	
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	10	7	3							2	
30 Hypertensive heart disease 402	6	3	3							1	
31 Hypertensive heart and renal disease. 404	2	2								1	
32 Ischemic heart disease 410-414	819	743	76	45	2	62	4	11		153	4
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	5	4	1							2	
34 All other forms of heart disease 420-423,425-427,429	107	99	8	2		13		3		22	
35 Hypertension 400,401,403	4	1	3					1			
36 Cerebrovascular disease 430-438	237	213	24	7		21	1	4		37	2
37 Arteriosclerosis 440	45	38	7	1		6				11	
38 Other diseases of arteries, arterioles, and capillaries 441-448	45	40	5	1		5		1		6	1
39 Acute bronchitis and bronchiolitis 466											
40 Influenza 470-474	7	6	1	1						2	
41 Pneumonia 480-486	78	68	10	2		5	1	1		6	2
42 Bronchitis, emphysema, and asthma ... 490-493	28	27	1	3		1				2	
43 Peptic ulcer 531-533	10	10		1		1				1	
44 Appendicitis 540-543	1	1									
45 Hernia & intestinal obstruction . 550-553,560	9	9		1		2				1	
46 Cirrhosis of liver 571	40	30	10	2		2				8	
47 Cholelithiasis, cholecystitis and cholangitis 574,575	1	1									
48 Nephritis and nephrosis 580-584	2	1	1								
49 Infections of kidney 590	5	3	2								
50 Hyperplasia of prostate 600	1	1				1					
51 Complications of pregnancy, childbirth, and the puerperium 630-678											
52 Congenital anomalies 740-759	11	9	2	2							
53 Certain causes of mortality in early infancy 760-778	18	12	6	3		1				3	
54 Symptoms and ill-defined conditions . 780-796	29	26	3	2		2		1		6	
55 All other diseases Residual	183	158	25	8		9		4		27	1
56 Accidents E800-E949	110	94	16	9	2	7		1		20	
57 Motor vehicle accidents E810-E823	47	42	5	4		3				12	
58 Home accidents (Home) E850-E949	32	27	5	2	1	1		1		5	
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	31	25	6	3	1	3				3	
60 Suicide E950-E959	51	48	3	1		4		1		15	
61 Homicide E960-E978	25	14	11			1				4	2
62 Other external causes E980-E999	2	2								1	

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 5 (continued)

Cause of Death	Clifton Forge		Covington		Roanoke City		Salem	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	63	14	101	12	994	227	196	10
1 Bacillary dysentery and amebiasis ... 004,006								
2 Enteritis & other diarrheal diseases. 008,009							1	
3 Tuberculosis, all forms 010-019					2	1		
4 Whooping cough 033								
5 Strep. sore throat and scarlet fever 034								
6 Meningococcal infections 036					1			
7 Septicemia 038			2		7	1		
8 Acute poliomyelitis 040-043								
9 Measles 055								
10 Syphilis and its sequelae 090-097								
11 Other infective & parasitic diseases Residual					1			
12 Malignant neoplasms 140-209	6	2	13	1	173	50	47	1
13 Buccal cavity and pharynx 140-149	1				5	1	3	
14 Digestive organs and peritoneum ... 150-159	1		4	1	43	15	14	1
15 Respiratory system 160-163	3	2	2		52	7	16	
16 Breast 174	1		2		12	3	2	
17 Genital organs 180-187					17	12	3	
18 Urinary organs 188,189			1		7	1	2	
19 Other and unspecified sites.170-173,190-199					21	4	3	
20 Leukemia 204-207			2		9	1	1	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209			2		7	6	3	
22 Benign neoplasms and neoplasms of unspecified nature 210-239			1		4			
23 Diabetes mellitus 250	1		2		7	3	1	2
24 Avitaminoses and other nutritional deficiencies 260-269	2				1			
25 Anemias 280-285	1		1		2	2		
26 Meningitis 320					1	1		
27 Major cardiovascular diseases 390-448	42	8	59	6	532	100	99	2
28 Diseases of heart . 390-398,402,404,410-429	26	2	43	3	393	70		1
29 Active rheumatic fever and chronic rheumatic heart disease 390-398					4	3	1	
30 Hypertensive heart disease 402			1		1	3		
31 Hypertensive heart and renal disease. 404					1			
32 Ischemic heart disease 410-414	27	6	35	2	341	56	69	2
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428				1	2			
34 All other forms of heart disease 420-423,425-427,429	1		7		44	8	7	
35 Hypertension 400,401,403				2		1		
36 Cerebrovascular disease 430-438	11		14	1	102	20	17	
37 Arteriosclerosis 440		1			19	6	1	
38 Other diseases of arteries, arterioles, and capillaries 441-448	3	1	2		18	3	4	
39 Acute bronchitis and bronchiolitis 466								
40 Influenza 470-474			1		2			1
41 Pneumonia 480-486	1		2		39	6	12	1
42 Bronchitis, emphysema, and asthma ... 490-493	2			1	16		3	
43 Peptic ulcer 531-533			2		5			
44 Appendicitis 540-543							1	
45 Hernia & intestinal obstruction . 550-553,560			2		3			
46 Cirrhosis of liver 571	1	1		1	17	8		
47 Cholelithiasis, cholecystitis and cholangitis 574,575					1			
48 Nephritis and nephrosis 580-584					1	1		
49 Infections of kidney 590					3	2		
50 Hyperplasia of prostate 600								
51 Complications of pregnancy, childbirth, and the puerperium 630-678								
52 Congenital anomalies 740-759			1		5	2	1	
53 Certain causes of mortality in early infancy 760-778					5	5		1
54 Symptoms and ill-defined conditions . 780-796			2		12	3	1	
55 All other diseases Residual	3	3	7	2	86	17	14	2
56 Accidents E800-E949	3		4	1	40	13	10	
57 Motor vehicle accidents E810-E823	1		2	1	17	4	3	
58 Home accidents (Home) E850-E949	1		1		11	4	5	
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	1		1		12	5	2	
60 Suicide E950-E959	1		2		21	3	3	
61 Homicide E960-E978					6	9	3	
62 Other external causes E980-E999					1			

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 6

Cause of Death	Planning District 6			Augusta		Bath		Highland		Rockbridge	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,760	1,657	103	389	17	55	5	29		145	3
1 Bacillary dysentery and amebiasis ... 004,006											
2 Enteritis & other diarrheal diseases. 008,009	1	1		1							
3 Tuberculosis, all forms 010-019	2	2		1							
4 Whooping cough 033											
5 Strep. sore throat and scarlet fever 034											
6 Meningococcal infections 036											
7 Septicemia 038	6	6		3							
8 Acute poliomyelitis 040-043											
9 Measles 055											
10 Syphilis and its sequelae 090-097	1		1				1				
11 Other infective & parasitic diseases Residual	2	1	1	1							
12 Malignant neoplasms 140-209	296	280	16	77	3	13		6		18	
13 Buccal cavity and pharynx 140-149	6	6		3							
14 Digestive organs and peritoneum ... 150-159	79	74	5	21	1	5		1		3	
15 Respiratory system 160-163	72	70	2	21	1	3		2		7	
16 Breast 174	24	22	2	8		1		1			
17 Genital organs 180-187	42	39	3	7		2		1		5	
18 Urinary organs 188,189	11	11		4		1					
19 Other and unspecified sites.170-173,190-199	39	37	2	7		1					
20 Leukemia 204-207	10	10		3				1			
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	13	11	2	3	1					2	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	5	5		2		1					
23 Diabetes mellitus 250	26	24	2	6		2				1	
24 Avitaminoses and other nutritional deficiencies 260-269	2	1	1	1							
25 Anemias 280-285	4	4									
26 Meningitis 320											
27 Major cardiovascular diseases 390-448	972	910	62	200	12	30	4	15		78	7
28 Diseases of heart ... 390-398,402,404,410-429	700	659	41	143	3	29	3	8		51	1
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	13	13		1		1				3	
30 Hypertensive heart disease 402	7	6	1	2							1
31 Hypertensive heart and renal disease. 404	3	2	1								
32 Ischemic heart disease 410-414	612	578	34	122	7	23	1	8		47	3
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	8	7	1	1		2	1			3	
34 All other forms of heart disease 420-423,425-427,429	57	53	4	17	2	3	1			3	
35 Hypertension 400,401,403	2	2									
36 Cerebrovascular disease 430-438	205	185	20	41	3	1	1	6		39	2
37 Arteriosclerosis 440	37	36	1	9				1		5	1
38 Other diseases of arteries, arterioles, and capillaries 441-448	28	28		7						3	
39 Acute bronchitis and bronchiolitis 466	2	2									
40 Influenza 470-474	6	6		2							
41 Pneumonia 480-486	56	55	1	12	1	1		1		8	
42 Bronchitis, emphysema, and asthma ... 490-493	20	19	1							12	
43 Peptic ulcer 531-533	7	7		1						1	
44 Appendicitis 540-543	3	3		2							
45 Hernia & intestinal obstruction . 550-553,560	4	4		1							
46 Cirrhosis of liver 571	20	18	2	5		1		2			
47 Cholelithiasis, cholecystitis and cholangitis 574,575	1	1									
48 Nephritis and nephrosis 580-584	9	7	2							2	
49 Infections of kidney 590	1		1								
50 Hyperplasia of prostate 600											
51 Complications of pregnancy, childbirth, and the puerperium 630-678											
52 Congenital anomalies 740-759	5	5		1						1	
53 Certain causes of mortality in early infancy 760-778	14	13	1	4		1				1	
54 Symptoms and ill-defined conditions . 780-796	12	11	1	2		1				2	
55 All other diseases Residual	146	138	8	38		1		4		11	1
56 Accidents E800-E949	98	96	2	21		1				16	
57 Motor vehicle accidents E810-E823	43	42	1	13				1		7	
58 Home accidents (Home) E850-E949	21	21		4						3	
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	34	33	1	4		1				6	
60 Suicide E950-E959	29	28		4		3				1	
61 Homicide E960-E978	11	10	1		1						
62 Other external causes E980-E999										2	

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 6 (continued)

Cause of Death	Rockingham		Buena Vista		Harrisonburg	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	437	7	52	6	139	12
1 Bacillary dysentery and amebiasis ... 004,006						
2 Enteritis & other diarrheal diseases. 008,009						
3 Tuberculosis, all forms 010-019	1					
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036						
7 Septicemia 038	1					
8 Acute poliomyelitis 040-043						
9 Measles 055						
10 Syphilis and its sequelae 090-097						
11 Other infective & parasitic diseases Residual						
12 Malignant neoplasms 140-209	74	1	9		17	1
13 Buccal cavity and pharynx 140-149						
14 Digestive organs and peritoneum ... 150-159	17		1		8	
15 Respiratory system 160-163	16		4		2	
16 Breast 174	5		1		1	1
17 Genital organs 180-187	15		1		4	
18 Urinary organs 188,189	2				2	
19 Other and unspecified sites.170-173,190-199	14	1	2			
20 Leukemia 204-207	2					
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	3					
22 Benign neoplasms and neoplasms of unspecified nature 210-239	1					
23 Diabetes mellitus 250	11		1		1	1
24 Avitaminoses and other nutritional deficiencies 260-269						
25 Anemias 280-285	1				1	
26 Meningitis 320						
27 Major cardiovascular diseases 390-448	248	6	31	4	76	6
28 Diseases of heart 390-398,402,404,410-429	182	5	20	3	48	-
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	3		1			
30 Hypertensive heart disease 402						
31 Hypertensive heart and renal disease. 404	2					1
32 Ischemic heart disease 410-414	167	5	17	3	52	3
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	1					
34 All other forms of heart disease 420-423,425-427,429	9		2		6	
35 Hypertension 400,401,403			1			
36 Cerebrovascular disease 430-438	52	1	9	1	15	2
37 Arteriosclerosis 440	7		1		1	
38 Other diseases of arteries, arterioles, and capillaries 441-448	7				2	
39 Acute bronchitis and bronchiolitis 466	2					
40 Influenza 470-474					1	
41 Pneumonia 480-486	6		1		7	
42 Bronchitis, emphysema, and asthma ... 490-493	3		4			
43 Peptic ulcer 531-533	3				1	
44 Appendicitis 540-543	1					
45 Hernia & intestinal obstruction . 550-553,560	2					
46 Cirrhosis of liver 571	1				4	
47 Cholelithiasis, cholecystitis and cholangitis 574,575						
48 Nephritis and nephrosis 580-584	4					1
49 Infections of kidney 590						
50 Hyperplasia of prostate 600						
51 Complications of pregnancy, childbirth, and the puerperium 630-678						
52 Congenital anomalies 740-759	2				1	
53 Certain causes of mortality in early infancy 760-778	4				1	
54 Symptoms and ill-defined conditions . 780-796	3			1	1	
55 All other diseases Residual	26		4	1	18	2
56 Accidents E800-E949	30		1		5	1
57 Motor vehicle accidents E810-E823	13		1		2	1
58 Home accidents (Home) E850-E949	8				1	
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	9				2	
60 Suicide E950-E959	9		1		4	
61 Homicide E960-E978	4				1	
62 Other external causes E980-E999						

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 6 (continued)

Cause of Death	Lexington		Staunton		Waynesboro	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	63	10	220	24	128	14
1 Bacillary dysentery and amebiasis ... 004,006						
2 Enteritis & other diarrheal diseases. 008,009						
3 Tuberculosis, all forms 010-019						
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036						
7 Septicemia 038			1			
8 Acute poliomyelitis 040-043						
9 Measles 055						
10 Syphilis and its sequelae 090-097						
11 Other infective & parasitic diseases Residual				1		
12 Malignant neoplasms 140-209	18	4	28	4	20	3
13 Buccal cavity and pharynx 140-149	2		1			
14 Digestive organs and peritoneum ... 150-159	6	1	7	1	5	2
15 Respiratory system 160-163	2		7		5	1
16 Breast 174	3		1	1	1	
17 Genital organs 180-187	1	3	2		1	
18 Urinary organs 188,189			2			
19 Other and unspecified sites.170-173,190-199	3		2	1	7	
20 Leukemia 204-207	1		3			
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209			3	1		
22 Benign neoplasms and neoplasms of unspecified nature 210-239					1	
23 Diabetes mellitus 250		1	2			
24 Avitaminoses and other nutritional deficiencies 260-269				1		
25 Anemias 280-285			2			
26 Meningitis 320						
27 Major cardiovascular diseases 390-448	27	5	129	11	75	7
28 Diseases of heart .. 390-398,402,404,410-429	19	3	89	7	50	3
29 Infective rheumatic fever and chronic rheumatic heart disease 390-398	2		2			
30 Hypertensive heart disease 402	1		2		1	
31 Hypertensive heart and renal disease. 404						
32 Ischemic heart disease 410-414	14	2	82	7	46	3
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428						
34 All other forms of heart disease 420-423,425-427,429	2	1	3		3	
35 Hypertension 400,401,403						
36 Cerebrovascular disease 430-438	5	2	29	4	18	4
37 Arteriosclerosis 440	1		8		3	
38 Other diseases of arteries, arterioles, and capillaries 441-448	2		2		5	
39 Acute bronchitis and bronchiolitis 466						
40 Influenza 470-474	1				2	
41 Pneumonia 480-486	6		7		5	
42 Bronchitis, emphysema, and asthma ... 490-493	1		5	1		
43 Peptic ulcer 531-533					1	
44 Appendicitis 540-543						
45 Hernia & intestinal obstruction . 550-553,560	1					
46 Cirrhosis of liver 571			5	1		1
47 Cholelithiasis, cholecystitis and cholangitis 574,575			1			
48 Nephritis and nephrosis 580-584			1	1		
49 Infections of kidney 590				1		
50 Hyperplasia of prostate 600						
51 Complications of pregnancy, childbirth, and the puerperium 630-678						
52 Congenital anomalies 740-759						
53 Certain causes of mortality in early infancy 760-778			2	1		
54 Symptoms and ill-defined conditions . 780-796			1		1	
55 All other diseases Residual	4		21	2	11	2
56 Accidents E800-E949	3		12		6	1
57 Motor vehicle accidents E810-E823			1		4	
58 Home accidents (Home) E850-E949	1		4			
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	2		7		2	1
60 Suicide E950-E959	2		1		3	
61 Homicide E960-E978			2		1	
62 Other external causes E980-E999						

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 7

Cause of Death	Planning District 7			Clarke		Frederick	
	Total	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,324	1,253	71	69	14	235	3
1 Bacillary dysentery and amebiasis ... 004-006							
2 Enteritis & other diarrheal diseases. 008,009	1	1					
3 Tuberculosis, all forms 010-019	1	1					
4 Whooping cough 033							
5 Strep. sore throat and scarlet fever 034							
6 Meningococcal infections 036							
7 Septicemia 038	6	5	1	1		1	
8 Acute poliomyelitis 040-043							
9 Measles 055							
10 Syphilis and its sequelae 090-097							
11 Other infective & parasitic diseases Residual	1	1					
12 Malignant neoplasms 140-209	280	265	15	14	1	50	
13 Buccal cavity and pharynx 140-149	4	4				1	
14 Digestive organs and peritoneum ... 150-159	70	65	5	2		13	
15 Respiratory system 160-163	87	83	4	5	1	16	
16 Breast 174	18	18		2		2	
17 Genital organs 180-187	39	36	3	3		6	
18 Urinary organs 188,189	13	13				2	
19 Other and unspecified sites, 170-173, 190-199	28	26	2	1		5	
20 Leukemia 204-207	7	7					
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	14	13	1			5	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	1	1				1	
23 Diabetes mellitus 250	23	21	2	3	2	3	
24 Avitaminoses and other nutritional deficiencies 260-269							
25 Anemias 280-285	3	3		1		1	
26 Meningitis 320	1						
27 Major cardiovascular diseases 390-448	706	676	30	30	8	136	1
28 Diseases of heart, 390-398, 402, 404, 410-429	529	505	24	13	6	38	
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	7	6	1	1		1	
30 Hypertensive heart disease 402	1	1					
31 Hypertensive heart and renal disease. 404	2	2					
32 Ischemic heart disease 410-414	474	452	22	17	5	91	1
33 Chronic disease of endocardium and other myocardial insufficiency .. 424, 428	1	1					
34 All other forms of heart disease 420-423, 425-427, 429	44	43	1		1	6	
35 Hypertension 400, 401, 403	1	1				1	
36 Cerebrovascular disease 430-438	133	129	4	9	1	28	
37 Arteriosclerosis 440	19	18	1	1		6	
38 Other diseases of arteries, arterioles, and capillaries 441-443	24	23	1	2	1	3	
39 Acute bronchitis and bronchiolitis 466							
40 Influenza 470-474	3	3					
41 Pneumonia 480-486	38	37	1		1	6	
42 Bronchitis, emphysema, and asthma ... 490-493	22	21	1	2	1	4	
43 Peptic ulcer 531-533	3	3					
44 Appendicitis 540-543	1	1					
45 Hernia & intestinal obstruction . 550-553, 560	4	3	1				1
46 Cirrhosis of liver 571	10	9	1			1	
47 Cholelithiasis, cholecystitis and cholangitis 574, 575	1	1					
48 Nephritis and nephrosis 580-584	6	6		1			
49 Infections of kidney 590	1	1					
50 Hyperplasia of prostate 600	1	1					
51 Complications of pregnancy, childbirth, and the puerperium 630-678							
52 Congenital anomalies 740-759	8	7	1	1	1	3	
53 Certain causes of mortality in early infancy 760-778	13	12	1	2		3	
54 Symptoms and ill-defined conditions . 780-796	22	19	3	1		1	
55 All other diseases Residual	62	52	10	4		6	
56 Accidents E800-E949	74	72	2	4		11	
57 Motor vehicle accidents E810-E823	33	33		2		4	
58 Home accidents (Home) E850-E949	17	17		1		3	
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	24	22	2	1		4	
60 Suicide E950-E959	27	27		4		5	
61 Homicide E960-E978	5	4	1	1		3	
62 Other external causes E980-E999							

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 7 (continued)

Cause of Death	Page		Shenandoah		Warren		Winchester	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	195	8	302	3	198	15	254	28
1 Bacillary dysentery and amebiasis ... 004,006								
2 Enteritis & other diarrheal diseases. 008,009							1	
3 Tuberculosis, all forms 010-019					1			
4 Whooping cough 033								
5 Strep. sore throat and scarlet fever 034								
6 Meningococcal infections 036								
7 Septicemia 038	1				1		1	1
8 Acute poliomyelitis 040-043								
9 Measles 055								
10 Syphilis and its sequelae 090-097								
11 Other infective & parasitic diseases Residual			1					
12 Malignant neoplasms 140-209	43	1	50	1	38	2	50	9
13 Buccal cavity and pharynx 140-149			1				2	
14 Digestive organs and peritoneum ... 150-159	13		13		11	1	13	4
15 Respiratory system 160-163	11		20		12	1	18	1
16 Breast 174	4		6		1		3	
17 Genital organs 180-187	5	1	7		4		11	2
18 Urinary organs 188,189	2		2		5		2	
19 Other and unspecified sites.170-173,190-199	4		7	1	4		5	1
20 Leukemia 204-207	3		1				3	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	1		3		1		3	1
22 Benign neoplasms and neoplasms of unspecified nature 210-239								
23 Diabetes mellitus 250	4		8				3	
24 Avitaminoses and other nutritional deficiencies 260-269								
25 Anemias 280-285	1							
26 Meningitis 320								1
27 Major cardiovascular diseases 390-448	107	5	163		104	3	136	3
28 Diseases of heart, 390-398,402,404,410-429	51	5	124		64	5	100	5
29 Active rheumatic fever and chronic rheumatic heart disease 390-398			2		1	1	1	
30 Hypertensive heart disease 402							1	
31 Hypertensive heart and renal disease. 404	1				1			
32 Ischemic heart disease 410-414	79	5	97		76	5	92	5
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428			1					
34 All other forms of heart disease 420-423,425-427,429	1		24		6		6	
35 Hypertension 400,401,403								
36 Cerebrovascular disease 430-438	18		30		15	2	29	1
37 Arteriosclerosis 440	2		3		2		4	1
38 Other diseases of arteries, arterioles, and capillaries 441-448	6		6		3		3	
39 Acute bronchitis and bronchiolitis 466								
40 Influenza 470-474			3					
41 Pneumonia 480-486	6		15		3		7	
42 Bronchitis, emphysema, and asthma ... 490-493	1		4		6		4	
43 Peptic ulcer 531-533			2				1	
44 Appendicitis 540-543					1			
45 Hernia & intestinal obstruction, 550-553,560			1		2			
46 Cirrhosis of liver 571	1		3				4	1
47 Cholelithiasis, cholecystitis and cholangitis 574,575	1							
48 Nephritis and nephrosis 580-584	1		2		2			
49 Infections of kidney 590			1					
50 Hyperplasia of prostate 600	1							
51 Complications of pregnancy, childbirth, and the puerperium 630-678								
52 Congenital anomalies 740-759	1		1				1	
53 Certain causes of mortality in early infancy 760-778	2				1		4	1
54 Symptoms and ill-defined conditions . 780-796	3		3		8	3	3	
55 All other diseases Residual	7	1	12	1	15		8	6
56 Accidents E800-E949	11	1	21	1	11	2	14	
57 Motor vehicle accidents E810-E823	8		11		4		4	
58 Home accidents (Home) E850-E949			6		3		4	
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	3	1	4	1	4		6	
60 Suicide E950-E959	4		2		5			
61 Homicide E960-E978							7	
62 Other external causes E980-E999								1

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 8

Cause of Death	Planning District 8			Arlington		Fairfax		Loudoun		Prince William	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	4,978	4,482	496	927	87	2,059	138	266	51	368	46
1 Bacillary dysentery and amebiasis ... 004,006											
2 Enteritis & other diarrheal diseases. 008,009	3	2	1	2					1		
3 Tuberculosis, all forms 010-019	7	3	4	1	1	1	2				
4 Whooping cough 033											
5 Strep. sore throat and scarlet fever 034											
6 Meningococcal infections 036											
7 Septicemia 038	14	11	3			10			1	1	
8 Acute poliomyelitis 040-043											
9 Measles 055											
10 Syphilis and its sequelae 090-097											
11 Other infective & parasitic diseases Residual	16	14	2	5	1	7				1	
12 Malignant neoplasms 140-209	1,201	1,084	117	226	18	535	36	59	13	63	10
13 Buccal cavity and pharynx 140-149	23	19	4	3		12	2				
14 Digestive organs and peritoneum ... 150-159	292	257	35	55	4	120	8	17	6	16	5
15 Respiratory system 160-163	322	295	27	57	5	148	5	14	3	20	2
16 Breast 174	116	108	8	20	2	56	2	5	2	7	
17 Genital organs 180-187	113	97	16	26	1	47	10	5	1	3	
18 Urinary organs 188,189	49	46	3	10		20	1	4	1	2	
19 Other and unspecified sites. 170-173, 190-199	188	169	19	33	3	87	7	12		8	2
20 Leukemia 204-207	46	45	1	10	1	24				3	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	52	48	4	12		21	1	2		4	1
22 Benign neoplasms and neoplasms of unspecified nature 210-239	12	11	1	3		5	1				
23 Diabetes mellitus 250	85	65	20	13	1	34	9	7	6	3	
24 Avitaminoses and other nutritional deficiencies 260-269	5	4	1	1		1		1			
25 Anemias 280-285	11	9	2	3	1	4	1				
26 Meningitis 320	2	2				2					
27 Major cardiovascular diseases 390-448	2,254	2,074	180	446	42	916	43	131	17	163	17
28 Diseases of heart . 390-398, 402, 404, 410-429	1,703	1,568	135	344	33	694	34	99	15	123	12
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	34	29	5	7	1	15	2	1	1	4	1
30 Hypertensive heart disease 402	10	9	1	1	1	2				3	
31 Hypertensive heart and renal disease. 404	9	9		1				1			
32 Ischemic heart disease 410-414	1,530	1,415	115	317	30	639	29	87	12	99	9
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	14	12	2	3		6		1	1	2	
34 All other forms of heart disease 420-423, 425-427, 429	106	94	12	15	1	32	3	9	1	15	2
35 Hypertension 400,401,403	12	10	2	7	1	3	1				
36 Cerebrovascular disease 430-438	361	327	34	66	6	143	7	24	2	25	2
37 Arteriosclerosis 440	91	89	2	15	2	39		4		7	
38 Other diseases of arteries, arterioles, and capillaries 441-448	87	80	7	14		37	1	4		8	3
39 Acute bronchitis and bronchiolitis 466	4	4		3		1					
40 Influenza 470-474	6	5	1	1		1	1			1	
41 Pneumonia 480-486	113	99	14	26		40	4	7		2	1
42 Bronchitis, emphysema, and asthma ... 490-493	84	76	8	21	2	29	2	7	1	7	
43 Peptic ulcer 531-533	18	16	2	7		6	2				
44 Appendicitis 540-543	2	2						1		1	
45 Hernia & intestinal obstruction . 550-553,560	10	9	1	1		3			1		
46 Cirrhosis of liver 571	97	84	13	21	3	34	4		1	10	
47 Cholelithiasis, cholecystitis and cholangitis 574,575	3	3		1		1					
48 Nephritis and nephrosis 580-584	14	12	2	1	1	5	1			2	
49 Infections of kidney 590	5	5				1					
50 Hyperplasia of prostate 600	1	1		1							
51 Complications of pregnancy, childbirth, and the puerperium 630-678	2	1	1			1					
52 Congenital anomalies 740-759	43	39	4	7	1	20	1	3		6	1
53 Certain causes of mortality in early infancy 760-778	64	44	20	6	1	17	8	4	2	14	2
54 Symptoms and ill-defined conditions . 780-796	34	25	9	1		13	3	2	2	3	
55 All other diseases Residual	363	327	36	61	5	149	7	14	2	34	3
56 Accidents E800-E949	313	283	30	42	5	142	7	23	3	40	6
57 Motor vehicle accidents E810-E823	156	145	11	23	1	58	2	12		32	5
58 Home accidents (Home) E850-E949	67	62	5	10		38		2	2	5	1
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	90	76	14	9	4	46	5	9	1	3	
60 Suicide E950-E959	131	125	6	23		57	1	5		13	2
61 Homicide E960-E978	57	39	18	4	3	21	5	1	1	4	4
62 Other external causes E980-E999	4	4				3					

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 3 (continued)

Cause of Death	Alexandria		Fairfax City		Falls Church		Manassas		Manassas Park	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	591	153	100	3	83	1	68	11	20	1
1 Bacillary dysentery and amebiasis ... 004,006										
2 Enteritis & other diarrheal diseases. 008,009										
3 Tuberculosis, all forms 010-019	1	1								
4 Whooping cough 033										
5 Strep. sore throat and scarlet fever 034										
6 Meningococcal infections 036										
7 Septicemia 038		2								
8 Acute poliomyelitis 040-043										
9 Measles 055										
10 Syphilis and its sequelae 090-097										
1 Other infective & parasitic diseases Residual		1					1			
12 Malignant neoplasms 140-209	135	36	22	2	26		15	2	3	
13 Buccal cavity and pharynx 140-149	3	1			1					
14 Digestive organs and peritoneum ... 150-159	27	12	8		8		5		1	
15 Respiratory system 160-163	39	9	5	1	7		4	2	1	
16 Breast 174	13	2	1		4		2			
17 Genital organs 180-187	11	3	1	1	2		2			
18 Urinary organs 188,189	9	1	1							
19 Other and unspecified sites, 170-173, 190-199	22	7	3		2		1		1	
20 Leukemia 204-207	3		2		2		1			
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	8	1	1							
22 Benign neoplasms and neoplasms of unspecified nature 210-239	2				1					
23 Diabetes mellitus 250	6	3		1	1		1			
24 Avitaminoses and other nutritional deficiencies 260-269	1	1								
25 Anemias 280-285					1				1	
26 Meningitis 320										
27 Major cardiovascular diseases 390-448	301	52	48	4	36	1	25	4	8	
28 Diseases of heart, 390-398, 402, 404, 410-429	217	35	39	3	29		17	3	3	
29 Acute rheumatic fever and chronic rheumatic heart disease 390-398					2					
30 Hypertensive heart disease 402	1		1				1			
31 Hypertensive heart and renal disease. 404	4		2		1					
32 Ischemic heart disease 410-414	196	30	34	3	25		13	2	5	
33 Chronic disease of endocardium and other myocardial insufficiency .. 424, 428		1								
34 All other forms of heart disease 420-423, 425-427, 429	16	4	2		1		3	1	1	
35 Hypertension 400, 401, 403										
36 Cerebrovascular disease 430-438	52	14	6	1	3	1	7	1	1	
37 Arteriosclerosis 440	19		2		3					
38 Other diseases of arteries, arterioles, and capillaries 441-448	13	3	1		1		1		1	
39 Acute bronchitis and bronchiolitis 466										
40 Influenza 470-474	1						1			
41 Pneumonia 480-486	13	6	3	1	2		3		3	
42 Bronchitis, emphysema, and asthma ... 490-493	9	2			1		2	1		
43 Peptic ulcer 531-533	3									
44 Appendicitis 540-543										
45 Hernia & intestinal obstruction . 550-553, 560	4						1			
46 Cirrhosis of liver 571	14	5	3		2					
47 Cholelithiasis, cholecystitis and cholangitis 574, 575	1									
48 Nephritis and nephrosis 580-584	4									
49 Infections of kidney 590	1				2					
50 Hyperplasia of prostate 600										
51 Complications of pregnancy, childbirth, and the puerperium 630-678		1								
52 Congenital anomalies 740-759	1	1					1		1	
53 Certain causes of mortality in early infancy 760-778	2	6	1							1
54 Symptoms and ill-defined conditions . 780-796	3	3	2				1	1		
55 All other diseases Residual	47	16	10		5		6	3	1	
56 Accidents E800-E949	16	9	7		4		6		3	
57 Motor vehicle accidents E810-E823	7	3	4				4			
58 Home accidents (Home) E850-E949	4	2	1		2		2			
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	5	4	2		2					
60 Suicide E950-E959	19	3	2		2		4			
61 Homicide E960-E978	7	5	1				1			
62 Other external causes E980-E999			1							

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 9

Cause of Death	Planning District 9			Culpeper		Fauquier	
	Total	White	Nonwh	White	Nonwh	White	Nonwh
All causes	817	650	167	152	43	206	66
1 Bacillary dysentery and amebiasis ... 004,006							
2 Enteritis & other diarrheal diseases. 008,009							
3 Tuberculosis, all forms 010-019	1		1				1
4 Whooping cough 033							
5 Strep. sore throat and scarlet fever 034							
6 Meningococcal infections 036							
7 Septicemia 038	8	6	2	2	2	1	
8 Acute poliomyelitis 040-043							
9 Measles 055							
10 Syphilis and its sequelae 090-097							
11 Other infective & parasitic diseases Residual	2	2					
12 Malignant neoplasms 140-209	146	109	37	27	6	29	21
13 Buccal cavity and pharynx 140-149	5	5		1		1	
14 Digestive organs and peritoneum ... 150-159	38	28	10	7	1	9	7
15 Respiratory system 160-163	42	28	14	4	3	6	7
16 Breast 174	9	8		5	1		
17 Genital organs 180-187	19	14	5	3		4	4
18 Urinary organs 188,189	3	3		1		1	
19 Other and unspecified sites.170-173,190-199	14	12	2	3	1	3	
20 Leukemia 204-207	7	6	1	2		3	1
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	9	5	4	1		2	2
22 Benign neoplasms and neoplasms of unspecified nature 210-239	3	3		1			
23 Diabetes mellitus 250	16	11	5	1	1	6	2
24 Avitaminoses and other nutritional deficiencies 260-269	1	1				1	
25 Anemias 280-285							
26 Meningitis 320	3	3		2		1	
27 Major cardiovascular diseases 390-448	410	331	79	77	22	110	25
28 Diseases of heart 390-398,402,404,410-429	325	266	59	56	16	93	19
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	3	3		1		1	
30 Hypertensive heart disease 402	3	2	1			2	
31 Hypertensive heart and renal disease. 404	3	3		1			
32 Ischemic heart disease 410-414	267	217	50	41	14	33	17
33 Chronic disease of endocardium and other myocardial insufficiency ... 424,428	4	3	1			1	1
34 All other forms of heart disease 420-423,425-427,429	45	38	7	13	2	6	1
35 Hypertension 400,401,403							
36 Cerebrovascular disease 430-438	70	52	18	16	6	13	4
37 Arteriosclerosis 440	8	7	1	2		2	1
38 Other diseases of arteries, arterioles, and capillaries 441-448	7	6	1	3		2	1
39 Acute bronchitis and bronchiolitis 466							
40 Influenza 470-474	2	2				1	
41 Pneumonia 480-486	25	21	4	7		7	2
42 Bronchitis, emphysema, and asthma ... 490-493	10	8	2		1	5	1
43 Peptic ulcer 531-533	4	3	1	1			1
44 Appendicitis 540-543							
45 Hernia & intestinal obstruction . 550-553,560	2	1	1				
46 Cirrhosis of liver 571	5	4	1	1		1	1
47 Cholelithiasis, cholecystitis and cholangitis 574,575	1	1				1	
48 Nephritis and nephrosis 580-584	6	2	4		1	1	1
49 Infections of kidney 590	4	4					
50 Hyperplasia of prostate 600							
51 Complications of pregnancy, childbirth, and the puerperium 630-678							
52 Congenital anomalies 740-759	3	2	1	1			1
53 Certain causes of mortality in early infancy 760-778	3	2	1		1		
54 Symptoms and ill-defined conditions . 780-796	5	5					
55 All other diseases Residual	58	48	10	10	5	19	1
56 Accidents E800-E949	64	50	14	10	4	15	5
57 Motor vehicle accidents E810-E823	28	23	5	4	1	5	2
58 Home accidents (Home) E850-E949	14	9	5	4	2	4	3
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	22	18	4	2	1	6	1
60 Suicide E950-E959	21	20	1	8		6	1
61 Homicide E960-E978	13	10	3	4		1	2
62 Other external causes E980-E999	1	1				1	

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 9 (continued)

Cause of Death	Madison		Orange		Rappahannock	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	79	20	157	30	56	3
1 Bacillary dysentery and amebiasis ... 004,006						
2 Enteritis & other diarrheal diseases. 008,009						
3 Tuberculosis, all forms 010-019						
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036						
7 Septicemia 038	1		2			
8 Acute poliomyelitis 040-043						
9 Measles 055						
10 Syphilis and its sequelae 090-097						
11 Other infective & parasitic diseases Residual	1		1			
12 Malignant neoplasms 140-209	13	3	28	4	12	3
13 Buccal cavity and pharynx 140-149	2		1			
14 Digestive organs and peritoneum ... 150-159	2	1	8		2	1
15 Respiratory system ... 160-163	2	1	12	2	4	1
16 Breast 174	2				1	
17 Genital organs 180-187	1		5	1		
18 Urinary organs 188,189					1	
19 Other and unspecified sites.170-173,190-199	3	1	1		2	
20 Leukemia 204-207					1	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	1			1	1	1
22 Benign neoplasms and neoplasms of unspecified nature 210-239			2			
23 Diabetes mellitus 250	2	1	2	1		
24 Avitaminoses and other nutritional deficiencies 260-269						
25 Anemias 280-285						
26 Meningitis 320						
27 Major cardiovascular diseases 390-448	35	10	80	18	29	4
28 Diseases of heart ... 390-398,402,404,410-429	27	9	58	11	22	4
29 Active rheumatic fever and chronic rheumatic heart disease 390-398					1	
30 Hypertensive heart disease 402				1		
31 Hypertensive heart and renal disease. 404			1		1	
32 Ischemic heart disease 410-414	21	3	55	7	17	
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	1				1	
34 All other forms of heart disease 420-423,425-427,429	5	1	12	3	2	
35 Hypertension 400,401,403						
36 Cerebrovascular disease 430-438	6	1	10	7	7	
37 Arteriosclerosis 440	1		2			
38 Other diseases of arteries, arterioles, and capillaries 441-448	1					
39 Acute bronchitis and bronchiolitis 466						
40 Influenza 470-474			1			
41 Pneumonia 480-486	2		3	2	2	
42 Bronchitis, emphysema, and asthma ... 490-493			1		2	
43 Peptic ulcer 531-533			2			
44 Appendicitis 540-543						
45 Hernia & intestinal obstruction . 550-553,560			1	1		
46 Cirrhosis of liver 571	1		1			
47 Cholelithiasis, cholecystitis and cholangitis 574,575						
48 Nephritis and nephrosis 580-584	1			1		1
49 Infections of kidney 590			4			
50 Hyperplasia of prostate 600						
51 Complications of pregnancy, childbirth, and the puerperium 630-678						
52 Congenital anomalies 740-759	1					
53 Certain causes of mortality in early infancy 760-778			2			
54 Symptoms and ill-defined conditions . 780-796	2		1		2	
55 All other diseases Residual	8	3	9	1	3	
56 Accidents E800-E949	9	3	11	1	5	
57 Motor vehicle accidents E810-E823	4	2	6		4	
58 Home accidents (Home) E850-E949	1					
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	4	1	5	1	1	
60 Suicide E950-E959	2		3			
61 Homicide E960-E978	1		4	1		
62 Other external causes E980-E999						

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 10

Cause of Death	Planning District 10			Albemarle		Fluvanna		Greene	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,193	906	287	259	60	77	31	57	11
1 Bacillary dysentery and amebiasis ... 004-006									
2 Enteritis & other diarrheal diseases. 008,009									
3 Tuberculosis, all forms 010-019									
4 Whooping cough 033									
5 Strep. sore throat and scarlet fever 034									
6 Meningococcal infections 036									
7 Septicemia 038	12	8	4	3			1	1	
8 Acute poliomyelitis 040-043									
9 Measles 055									
10 Syphilis and its sequelae 090-097									
11 Other infective & parasitic diseases Residual	5	2	3		1		1		
12 Malignant neoplasms 140-209	218	165	53	48	11	14	3	7	3
13 Buccal cavity and pharynx 140-149	3	1	2						
14 Digestive organs and peritoneum ... 150-159	46	26	20	3	6	4	1		2
15 Respiratory system 160-163	56	47	9	12	2	2		3	
16 Breast 174	17	14	3	5		1		1	
17 Genital organs 180-187	26	20	6	8	1		1	1	1
18 Urinary organs 188,189	13	9	4	5		2			
19 Other and unspecified sites.170-173,190-199	32	25	7	7	1	2		2	
20 Leukemia 204-207	11	10	1	2		1	1		
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	14	13	1	6		1			
22 Benign neoplasms and neoplasms of unspecified nature 210-239	2	1	1	1	1				
23 Diabetes mellitus 250	10	8	2	1	1				
24 Avitaminoses and other nutritional deficiencies 260-269	5	4	1	1		1			
25 Anemias 280-285	2	2							
26 Meningitis 320									
27 Major cardiovascular diseases 390-448	618	482	136	135	30	42	18	35	6
28 Diseases of heart . 390-398,402,404,410-429	461	359	102	105	19	32	15	25	5
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	7	5	2	3		1	1		
30 Hypertensive heart disease 402	3	2	1	1					
31 Hypertensive heart and renal disease. 404	2	1	1	1					
32 Ischemic heart disease 410-414	373	298	75	82	15	26	7	22	
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	3		2			1	1		
34 All other forms of heart disease 420-423,425-427,429	73	52	21	18	4	4	6	3	1
35 Hypertension 400,401,403									
36 Cerebrovascular disease 430-438	119	90	29	19	8	8	2	9	1
37 Arteriosclerosis 440	24	20	4	4	3	1			
38 Other diseases of arteries, arterioles, and capillaries 441-448	14	13	1	7		1	1	1	
39 Acute bronchitis and bronchiolitis 466									
40 Influenza 470-474	2	2				1			
41 Pneumonia 480-486	43	35	8	13	1	1		4	
42 Bronchitis, emphysema, and asthma ... 490-493	8	7	1	2	1	1			
43 Peptic ulcer 531-533	3	3		1					
44 Appendicitis 540-543									
45 Hernia & intestinal obstruction . 550-553,560	2	2		2					
46 Cirrhosis of liver 571	13	9	4	1				1	
47 Cholelithiasis, cholecystitis and cholangitis 574,575									
48 Nephritis and nephrosis 580-584	5	4	1					1	
49 Infections of kidney 590	4	3	1						
50 Hyperplasia of prostate 600									
51 Complications of pregnancy, childbirth, and the puerperium 630-678	1	1				1			
52 Congenital anomalies 740-759	7	6	1	1		2			
53 Certain causes of mortality in early infancy 760-778	15	6	9	1	1		1	1	
54 Symptoms and ill-defined conditions . 780-796	7	6	1	1		1			1
55 All other diseases Residual	102	74	28	17	8	9	4	5	
56 Accidents E800-E949	72	46	26	20	2	4	2	1	1
57 Motor vehicle accidents EB10-E823	38	27	11	9		1	2	1	
58 Home accidents (Home) E850-E949	13	6	7	5	1				
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	21	13	8	6	1	3			1
60 Suicide E950-E959	28	26	2	9					
61 Homicide E960-E978	8	3	5	1	3		1		
62 Other external causes E980-E999	1	1		1					

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 10 (continued)

Cause of Death	Louisa		Nelson		Charlottesville	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	122	59	138	49	253	77
1 Bacillary dysentery and amebiasis ... 004,006						
2 Enteritis & other diarrheal diseases. 008,009						
3 Tuberculosis, all forms 010-019						
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036						
7 Septicemia 038			2	1	2	2
8 Acute poliomyelitis 040-043						
9 Measles 055						
10 Syphilis and its sequelae 090-097						
11 Other infective & parasitic diseases Residual	1				1	1
12 Malignant neoplasms 140-209	24	13	26	8	46	15
13 Buccal cavity and pharynx 140-149						
14 Digestive organs and peritoneum ... 150-159	6	4	6	4	7	3
15 Respiratory system 160-163	7	5	9		17	
16 Breast 174		1	2		5	
17 Genital organs 180-187	2	1	3		3	
18 Urinary organs 188,189	1	2	1	1		
19 Other and unspecified sites. 170-173, 190-199	3		5	2	6	
20 Leukemia 204-207	3		3		1	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	2			1	4	
22 Benign neoplasms and neoplasms of unspecified nature 210-239						
23 Diabetes mellitus 250	1		2		3	1
24 Avitaminoses and other nutritional deficiencies 260-269	1	1	1			
25 Anemias 280-285	1		1			
26 Meningitis 320						
27 Major cardiovascular diseases 390-448	59	26	66	22	145	34
28 Diseases of heart 390-398, 400, 404, 410-429	47	12	53	13	27	16
29 Active rheumatic fever and chronic rheumatic heart disease 390-398		1	1			
30 Hypertensive heart disease 402	1	1				
31 Hypertensive heart and renal disease. 404		1				
32 Ischemic heart disease 410-414	38	13	48	15	82	21
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428		1				
34 All other forms of heart disease 420-423, 425-427, 429	8	2	4	3	15	5
35 Hypertension 400,401,403						
36 Cerebrovascular disease 430-438	8	7	9	4	37	7
37 Arteriosclerosis 440	3		2		10	1
38 Other diseases of arteries, arterioles, and capillaries 441-448	1		2		1	
39 Acute bronchitis and bronchiolitis 466						
40 Influenza 470-474	1					
41 Pneumonia 480-486	5	4	7	1	3	2
42 Bronchitis, emphysema, and asthma ... 490-493	1		1		2	
43 Peptic ulcer 531-533			1		1	
44 Appendicitis 540-543						
45 Hernia & intestinal obstruction . 550-553,560						
46 Cirrhosis of liver 571			1	1	6	3
47 Cholelithiasis, cholecystitis and cholangitis 574,575						
48 Nephritis and nephrosis 580-584	2			1	1	
49 Infections of kidney 590	1	1	2			
50 Hyperplasia of prostate 600						
51 Complications of pregnancy, childbirth, and the puerperium 630-678						
52 Congenital anomalies 740-759		1	2		1	
53 Certain causes of mortality in early infancy 760-778		1	2	2	2	4
54 Symptoms and ill-defined conditions . 780-796	1		1		2	
55 All other diseases Residual	9	3	17	3	17	10
56 Accidents E800-E949	9	8	2	9	10	4
57 Motor vehicle accidents E810-E823	7	3	1	6	8	
58 Home accidents (Home) E850-E949		2		1	1	3
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	2	3	1	2	1	1
60 Suicide E950-E959	6	1	3	1	8	
61 Homicide E960-E978			1		1	1
62 Other external causes E980-E999						

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 11

Cause of Death	Planning District 11			Amherst		Appomattox		Bedford	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,790	1,402	388	199	57	94	32	245	46
1 Bacillary dysentery and amebiasis ... 004,006									
2 Enteritis & other diarrheal diseases. 008,009	1		1						
3 Tuberculosis, all forms 010-019	2	2						2	
4 Whooping cough 033									
5 Strep. sore throat and scarlet fever 034									
6 Meningococcal infections 036	1		1		1				
7 Septicemia 038	13	11	2	1				2	
8 Acute poliomyelitis 040-043									
9 Measles 055									
10 Syphilis and its sequelae 090-097									
11 Other infective & parasitic diseases Residual	3	3		1		1			
12 Malignant neoplasms 140-209	331	262	69	37	8	16	7	40	5
13 Buccal cavity and pharynx 140-149	12	8	4	2				1	
14 Digestive organs and peritoneum ... 150-159	62	48	14	5	2	6	2	8	
15 Respiratory system 160-163	80	66	14	7		2	2	13	1
16 Breast 174	39	30	9	5	2		1	3	1
17 Genital organs 180-187	33	24	9	3	3	1	1	5	1
18 Urinary organs 188,189	16	13	3	3	1	1		1	
19 Other and unspecified sites. 170-173, 190-199	54	46	8	7				8	1
20 Leukemia 204-207	14	11	3	3		1		1	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	21	16	5	2		4	1		
22 Benign neoplasms and neoplasms of unspecified nature 210-239	7	3	4		1			2	
23 Diabetes mellitus 250	23	18	5	2	1	2		4	1
24 Avitaminoses and other nutritional deficiencies 260-269	1	1		1					
25 Anemias 280-285	1		1						
26 Meningitis 320	2	1	1						1
27 Major cardiovascular diseases 390-448	934	744	190	104	28	51	18	132	23
28 Diseases of heart ... 390-398, 402, 404, 410-429	676	552	124	81	15	39	13	30	11
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	10	8	2	2					
30 Hypertensive heart disease 402	4	3	1				1		
31 Hypertensive heart and renal disease. 404	6	4	2						
32 Ischemic heart disease 410-414	613	505	108	76	15	38	10	83	10
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	3	2	1	1					
34 All other forms of heart disease 420-423, 425-427, 429	40	30	10	2		1	2	7	1
35 Hypertension 400,401,403	7	7							
36 Cerebrovascular disease 430-438	197	145	52	21	11	10	4	27	3
37 Arteriosclerosis 440	28	22	6	1	1	2	1	12	1
38 Other diseases of arteries, arterioles, and capillaries 441-448	26	18	8	1	1			3	3
39 Acute bronchitis and bronchiolitis 466	1	1							
40 Influenza 470-474	1	1						1	
41 Pneumonia 480-486	51	43	8	4		2	1	7	5
42 Bronchitis, emphysema, and asthma ... 490-493	21	18	3	3		1	1	3	1
43 Peptic ulcer 531-533	3	3							
44 Appendicitis 540-543	3	1	2					1	1
45 Hernia & intestinal obstruction . 550-553,560	6	4	2	1		1			
46 Cirrhosis of liver 571	23	21	2	1		2		2	
47 Cholelithiasis, cholecystitis and cholangitis 574,575	1	1							
48 Nephritis and nephrosis 580-584	6	4	2	2		1			
49 Infections of kidney 590	1	1							
50 Hyperplasia of prostate 600									
51 Complications of pregnancy, childbirth, and the puerperium 630-678									
52 Congenital anomalies 740-759	13	9	4		1	2	1	2	
53 Certain causes of mortality in early infancy 760-778	14	5	9	1			1		2
54 Symptoms and ill-defined conditions . 780-796	24	17	7	2	1	1		6	1
55 All other diseases Residual	139	107	32	18	5	7	2	14	3
56 Accidents E800-E949	105	80	25	13	6	5	1	17	4
57 Motor vehicle accidents E810-E823	48	38	10	1	3	3		10	3
58 Home accidents (Home) E850-E949	26	19	7	3	1	2		4	1
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	31	23	8	9	2		1	3	
60 Suicide E950-E959	34	29	5	5	1			7	
61 Homicide E960-E978	24	11	13	3	4	2		3	2
62 Other external causes E980-E999	1	1							

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 11 (continued)

Cause of Death	Campbell		Bedford City		Lynchburg	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	250	62	84	15	530	176
1 Bacillary dysentery and amebiasis ... 004,006						
2 Enteritis & other diarrheal diseases. 008,009						1
3 Tuberculosis, all forms 010-019						
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036						
7 Septicemia 038	4		1		3	2
8 Acute poliomyelitis 040-043						
9 Measles 055						
10 Syphilis and its sequelae 090-097						
11 Other infective & parasitic diseases Residual	1					
12 Malignant neoplasms 140-209	49	11	13	5	107	33
13 Buccal cavity and pharynx 140-149	1		1		3	4
14 Digestive organs and peritoneum ... 150-159	11	2	2	1	16	7
15 Respiratory system 160-163	14	2	2	1	28	8
16 Breast 174	5	2	2		15	3
17 Genital organs 180-187	3		1	1	11	3
18 Urinary organs 188,189	1		3	1	4	1
19 Other and unspecified sites. 170-173,190-199	12	3	1		17	4
20 Leukemia 204-207	1	2		1	5	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	1		1		8	3
22 Benign neoplasms and neoplasms of unspecified nature 210-239		1			1	2
23 Diabetes mellitus 250			4		6	3
24 Avitaminoses and other nutritional deficiencies 260-269						
25 Anemias 280-285						1
26 Meningitis 320	1					
27 Major cardiovascular diseases 390-448	117	35	52	5	288	81
28 Diseases of heart, 390-398,402,404,410-429	92	21	35	4	215	60
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	2	1	2		2	1
30 Hypertensive heart disease 402	1				2	
31 Hypertensive heart and renal disease. 404					4	2
32 Ischemic heart disease 410-414	82	17	31	4	195	52
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	1	1				
34 All other forms of heart disease 420-423,425-427,429	6	2	2		12	5
35 Hypertension 400,401,403	1		1		5	
36 Cerebrovascular disease 430-438	22	12	11	1	54	16
37 Arteriosclerosis 440		1	3		4	2
38 Other diseases of arteries, arterioles, and capillaries 441-448	2	1	2		10	3
39 Acute bronchitis and bronchiolitis 466	1					
40 Influenza 470-474						
41 Pneumonia 480-486	6	1	4	1	20	
42 Bronchitis, emphysema, and asthma ... 490-493	2		2		7	1
43 Peptic ulcer 531-533			1		2	
44 Appendicitis 540-543						1
45 Hernia & intestinal obstruction . 550-553,560					2	2
46 Cirrhosis of liver 571	9				7	2
47 Cholelithiasis, cholecystitis and cholangitis 574,575					1	
48 Nephritis and nephrosis 580-584		1			1	1
49 Infections of kidney 590	1					
50 Hyperplasia of prostate 600						
51 Complications of pregnancy, childbirth, and the puerperium 630-678						
52 Congenital anomalies 740-759	3			1	2	1
53 Certain causes of mortality in early infancy 760-778	2	2			2	4
54 Symptoms and ill-defined conditions . 780-796		2	1	2	7	1
55 All other diseases Residual	24	4	4	1	40	20
56 Accidents E800-E949	18	2	1		26	12
57 Motor vehicle accidents E810-E823	11	1			13	3
58 Home accidents (Home) E850-E949	4	1	1		5	4
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	3				8	5
60 Suicide E950-E959	11	1	1		5	3
61 Homicide E960-E978	1	2			2	5
62 Other external causes E980-E999					1	

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 12

Cause of Death	Planning District 12			Franklin		Henry		Patrick	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	2,094	1,581	513	232	31	303	84	129	17
1 Bacillary dysentery and amebiasis ... 004,006									
2 Enteritis & other diarrheal diseases. 008,009	1	1							
3 Tuberculosis, all forms 010-019	1		1						
4 Whooping cough 033									
5 Strep. sore throat and scarlet fever 034									
6 Meningococcal infections 036									
7 Septicemia 038	11	9	2	1		5		1	
8 Acute poliomyelitis 040-043									
9 Measles 055									
10 Syphilis and its sequelae 090-097									
11 Other infective & parasitic diseases Residual	3	2	1	1	1				
12 Malignant neoplasms 140-209	372	291	81	43	5	53	14	37	2
13 Buccal cavity and pharynx 140-149	7	6	1			2		2	
14 Digestive organs and peritoneum ... 150-159	87	63	24	7	2	17	3	3	1
15 Respiratory system 160-163	91	76	15	16	1	7	3	10	
16 Breast 174	26	18	8	4		2	1	2	
17 Genital organs 180-187	54	38	16	3		10	5	3	
18 Urinary organs 188,189	14	12	2	1		1			
19 Other and unspecified sites. 170-173, 190-199	50	42	8	8	2	9		2	
20 Leukemia 204-207	20	17	3			4	1		
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	23	19	4	4		1	1	1	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	3	3							
23 Diabetes mellitus 250	42	23	19	2		1	3	2	
24 Avitaminoses and other nutritional deficiencies 260-269	2	2							
25 Anemias 280-285	4	2	2			1			
26 Meningitis 320	1		1				1		
27 Major cardiovascular diseases 390-448	1,040	830	210	113	9	154	32	58	3
28 Diseases of heart ... 390-398, 402, 404, 410-429	746	609	137	39	3	113	30	35	3
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	14	10	4	3		1			
30 Hypertensive heart disease 402	6	4	2		1	1	1		
31 Hypertensive heart and renal disease. 404	2	1	1				1		
32 Ischemic heart disease 410-414	642	530	112	30	1	101	17	30	5
33 Chronic disease of endocardium and other myocardial insufficiency .. 424, 428	4	2	2					1	
34 All other forms of heart disease 420-423, 425-427, 429	78	62	16	6	1	10	1	4	1
35 Hypertension 400, 401, 403	5	3	2						
36 Cerebrovascular disease 430-438	223	162	61	15	5	27	12	19	2
37 Arteriosclerosis 440	42	33	9	7	1	12		3	1
38 Other diseases of arteries, arterioles, and capillaries 441-448	24	23	1	2		2		1	
39 Acute bronchitis and bronchiolitis 466									
40 Influenza 470-474	4	3	1					1	1
41 Pneumonia 480-486	84	66	18	13	2	8	4	9	
42 Bronchitis, emphysema, and asthma ... 490-493	19	16	3	1		2	1	2	
43 Peptic ulcer 531-533	6	5	1	1		1		1	
44 Appendicitis 540-543									
45 Hernia & intestinal obstruction . 550-553, 560	3	2	1						
46 Cirrhosis of liver 571	31	20	11	3	1	5		1	
47 Cholelithiasis, cholecystitis and cholangitis 574, 575	8	7	1						
48 Nephritis and nephrosis 580-584	7	2	5				1		
49 Infections of kidney 590	4	4				3			
50 Hyperplasia of prostate 600									
51 Complications of pregnancy, childbirth, and the puerperium 630-678									
52 Congenital anomalies 740-759	11	10	1	1		3	1	2	
53 Certain causes of mortality in early infancy 760-778	23	10	13				1	2	1
54 Symptoms and ill-defined conditions . 780-796	24	10	14	5	1		3		1
55 All other diseases Residual	177	120	57	19	3	30	11	7	2
56 Accidents E800-E949	144	92	52	13	9	20	6	5	1
57 Motor vehicle accidents E810-E823	74	42	32	8	8	7	4	1	
58 Home accidents (Home) E850-E949	22	17	5	1		5		1	
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	48	33	15	4	1	8	2	3	1
60 Suicide E950-E959	34	28	6	7		9	3	1	
61 Homicide E960-E978	33	21	12	9		7	3		
62 Other external causes E980-E999	2	2				1			

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 12 (continued)

Cause of Death	Pittsylvania		Danville		Martinsville	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	386	162	405	142	126	77
1 Bacillary dysentery and amebiasis ... 004,006						
2 Enteritis & other diarrheal diseases. 008,009			1			
3 Tuberculosis, all forms 010-019						1
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036						
7 Septicemia 038		1	1	1	1	
8 Acute poliomyelitis 040-043						
9 Measles 055						
10 Syphilis and its sequelae 090-097						
11 Other infective & parasitic diseases Residual			1			
12 Malignant neoplasms 140-209	64	20	75	22	19	13
13 Buccal cavity and pharynx 140-149	1	1	1			
14 Digestive organs and peritoneum ... 150-159	9	5	14	6	3	
15 Respiratory system 160-163	19	2	23	6	1	3
16 Breast 174	5	5	3	2	2	
17 Genital organs 180-187	9	5	10	2	3	
18 Urinary organs 188,189	5		4	2		
19 Other and unspecified sites. 170-173, 190-199	9	2	3	2	2	
20 Leukemia 204-207	3		5	1	1	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	4		7	1	2	2
22 Benign neoplasms and neoplasms of unspecified nature 210-239	1		2			
23 Diabetes mellitus 250	5	5	11	9	2	2
24 Avitaminoses and other nutritional deficiencies 260-269	1				1	
25 Anemias 280-285				1	1	1
26 Meningitis 320						
27 Major cardiovascular diseases 390-448	209	78	224	60	72	22
28 Diseases of heart 390-398, 402, 404, 410-429	152	49	169	43	51	2
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	1	1	4	3	1	
30 Hypertensive heart disease 402	3					
31 Hypertensive heart and renal disease. 404	1					
32 Ischemic heart disease 410-414	127	41	147	34	45	14
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428		2	1			
34 All other forms of heart disease 420-423, 425-427, 429	20	5	17	6	5	2
35 Hypertension 400,401,403		1	3	1		
36 Cerebrovascular disease 430-438	47	23	40	14	14	5
37 Arteriosclerosis 440	5	5	2	2		
38 Other diseases of arteries, arterioles, and capillaries 441-444, 448	5		10		3	1
39 Acute bronchitis and bronchiolitis 466						
40 Influenza 470-474	1				1	
41 Pneumonia 480-486	14	2	18	7		3
42 Bronchitis, emphysema, and asthma ... 490-493	8		3			2
43 Peptic ulcer 531-533	1	1			1	
44 Appendicitis 540-543						
45 Hernia & intestinal obstruction . 550-553, 560	2			1		
46 Cirrhosis of liver 571	2	3	5	4	4	3
47 Cholelithiasis, cholecystitis and cholangitis 574,575	3	1	4			
48 Nephritis and nephrosis 580-584			2	4		
49 Infections of kidney 590			1			
50 Hyperplasia of prostate 600						
51 Complications of pregnancy, childbirth, and the puerperium 630-678						
52 Congenital anomalies 740-759			4			
53 Certain causes of mortality in early infancy 760-778	7	7	1	3		1
54 Symptoms and ill-defined conditions . 780-796	1	2	1	3	3	1
55 All other diseases Residual	30	17	27	16	7	5
56 Accidents E800-E949	26	21	20	7	8	3
57 Motor vehicle accidents E810-E823	14	15	8	4	4	1
58 Home accidents (Home) E850-E949	4	2	5		1	3
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	8	4	7	3	3	2
60 Suicide E950-E959	7	1	2	2	2	
61 Homicide E960-E978	4	3	1	2		4
62 Other external causes E980-E999			1			

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 13

Cause of Death	Planning District 13			Brunswick		Halifax		Mecklenburg		South Boston	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	933	519	414	89	102	178	126	194	157	58	29
1 Bacillary dysentery and amebiasis ... 004,006											
2 Enteritis & other diarrheal diseases. 008,009											
3 Tuberculosis, all forms 010-019	3	1	2		1		1			1	
4 Whooping cough 033											
5 Strep. sore throat and scarlet fever 034											
6 Meningococcal infections 036											
7 Septicemia 038	4	2	2		2	1		1			
8 Acute poliomyelitis 040-043											
9 Measles 055											
10 Syphilis and its sequelae 090-097	1	1								1	
11 Other infective & parasitic diseases Residual	6	1									
12 Malignant neoplasms 140-209	152	89	63	9	10	24	21	39	26	17	6
13 Buccal cavity and pharynx 140-149	3	2	1			1	1			1	
14 Digestive organs and peritoneum ... 150-159	41	25	16	3	1	5	9	11	4	6	2
15 Respiratory system 160-163	42	25	17	1	3	10	2	11	10	3	2
16 Breast 174	15	13	2			4	1	7	1	2	
17 Genital organs 180-187	17	6	11	1	1	3	3		6		1
18 Urinary organs 188,189	3	3						3			
19 Other and unspecified sites.170-173,190-199	14	6	8	2	2	1	2	3	3		1
20 Leukemia 204-207	6	2	4		2		1	1	1		
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	11	7	4	2	1		2	3	1	2	
22 Benign neoplasms and neoplasms of unspecified nature 210-239											
23 Diabetes mellitus 250	23	7	16		5	3	5	4	6		
24 Avitaminoses and other nutritional deficiencies 260-269	1	1		1							
25 Anemias 280-285	3	1	2			1			1		1
26 Meningitis 320	1	1									
27 Major cardiovascular diseases 390-448	494	291	203	59	50	96	52	107	51	29	10
28 Diseases of heart .. 390-398,402,404,410-429	392	229	163	48	42	78	50	84	63	19	8
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	7	5	2		1	4		1			
30 Hypertensive heart disease 402	2	2				1					
31 Hypertensive heart and renal disease. 404	3		3				3				
32 Ischemic heart disease 410-414	350	205	145	47	38	66	42	75	59	17	6
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	2		2				2				
34 All other forms of heart disease 420-423,425-427,429	28	17	11	1	3	7	3	3	4	1	1
35 Hypertension 400,401,403	2	1	1								
36 Cerebrovascular disease 430-438	84	53	31	9	6	15	8	20	15	9	2
37 Arteriosclerosis 440	9	7	2	1		2	1	3	1	1	
38 Other diseases of arteries, arterioles, and capillaries 441-448	7	1	6	1	2		2		2		
39 Acute bronchitis and bronchiolitis 466											
40 Influenza 470-474	2	2				1		1			
41 Pneumonia 480-486	34	20	14	1	4	8	6	7	2	4	2
42 Bronchitis, emphysema, and asthma ... 490-493	10	6	4	2		1		3	3		1
43 Peptic ulcer 531-533	2	2				1		1			
44 Appendicitis 540-543	1		1				1				
45 Hernia & intestinal obstruction . 550-553,560	1		1						1		
46 Cirrhosis of liver 571	11	5	6	2	1	2	1	1	2		2
47 Cholelithiasis, cholecystitis and cholangitis 574,575	2	2				1		1			
48 Nephritis and nephrosis 580-584	3	1	2		1		1	1			
49 Infections of kidney 590											
50 Hyperplasia of prostate 600	2	1	1			1	1				
51 Complications of pregnancy, childbirth, and the puerperium 630-678											
52 Congenital anomalies 740-759	9	3	6		2	3			3		1
53 Certain causes of mortality in early infancy 760-778	13	7	6	2	1	2		3	3		2
54 Symptoms and ill-defined conditions . 780-796	4	1	3		1			1	2		
55 All other diseases Residual	66	33	33	3	8	17	13	9	10	4	2
56 Accidents E800-E949	59	36	23	10	10	12	7	12	6	2	
57 Motor vehicle accidents E810-E823	25	17	8	4	4	2	3	9	1	2	
58 Home accidents (Home) E850-E949	17	5	12	2	4	3	4		4		
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	17	14	3	4	2	7		3	1		
60 Suicide E950-E959	7	2	5		3	2	1				1
61 Homicide E960-E978	19	4	15		3	2	4	2	8		
62 Other external causes E980-E999											

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 14

Cause of Death	Planning District 14			Amelia		Buckingham		Charlotte	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	913	574	339	50	33	73	33	104	46
1 Bacillary dysentery and amebiasis ... 004,006									
2 Enteritis & other diarrheal diseases. 008,009	1	1							
3 Tuberculosis, all forms 010-019	3	1	2		1				
4 Whooping cough 033									
5 Strep. sore throat and scarlet fever 034									
6 Meningococcal infections 036	1	1							
7 Septicemia 038	6	2	4	1	1		1	1	1
8 Acute poliomyelitis 040-043									
9 Measles 055									
10 Syphilis and its sequelae 090-097									
11 Other infective & parasitic diseases Residual	4					1	1	1	
12 Malignant neoplasms 140-209	163	101	62	5	7	12	7	25	11
13 Buccal cavity and pharynx 140-149	2	1	1						
14 Digestive organs and peritoneum ... 150-159	36	24	12	1	1	1	2	10	1
15 Respiratory system 160-163	34	22	12		3	5	2	3	
16 Breast 174	13	9	4	1		1			3
17 Genital organs 180-187	29	18	11	2	1	2	1	5	1
18 Urinary organs 188,189	7	4	3					1	1
19 Other and unspecified sites.170-173,190-199	25	13	12	1		2	1	3	4
20 Leukemia 204-207	6	4	2		1			1	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	11	6	5		1	1	1	2	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	2	1	1						
23 Diabetes mellitus 250	19	13	6	1				4	2
24 Avitaminoses and other nutritional deficiencies 260-269	1		1						
25 Anemias 280-285									
26 Meningitis 320									
27 Major cardiovascular diseases 390-448	471	314	157	31	15	35	16	48	22
28 Diseases of heart . 390-398,402,404,410-429	313	207	106	21	11	25	11	31	13
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	6	2	4	1	1		1		
30 Hypertensive heart disease 402	5	2	3	1					
31 Hypertensive heart and renal disease. 404									
32 Ischemic heart disease 410-414	253	179	74	17	5	17	3	27	11
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428									
34 All other forms of heart disease 420-423,425-427,429	49	24	25	2	5	3	2	4	2
35 Hypertension 400,401,403									
36 Cerebrovascular disease 430-438	110	75	35	9	1	6	4	11	7
37 Arteriosclerosis 440	41	29	12	1	2	4	1	6	2
38 Other diseases of arteries, arterioles, and capillaries 441-448	7	3	4		1				
39 Acute bronchitis and bronchiolitis 466	1		1						
40 Influenza 470-474	3	3						2	
41 Pneumonia 480-486	32	23	9	2	1	5	2	3	
42 Bronchitis, emphysema, and asthma ... 490-493	6	2	4					2	
43 Peptic ulcer 531-533	2	2		1				1	
44 Appendicitis 540-543									
45 Hernia & intestinal obstruction . 550-553,560	6	3	3						1
46 Cirrhosis of liver 571	3	3							
47 Cholelithiasis, cholecystitis and cholangitis 574,575									
48 Nephritis and nephrosis 580-584	2		2						
49 Infections of kidney 590	1		1						
50 Hyperplasia of prostate 600									
51 Complications of pregnancy, childbirth, and the puerperium 630-678									
52 Congenital anomalies 740-759	5	2	3			1	1		
53 Certain causes of mortality in early infancy 760-778	6		6						
54 Symptoms and ill-defined conditions . 780-796	12	5	7				1		
55 All other diseases Residual	92	47	35	6	6	6	2	5	4
56 Accidents E800-E949	61	39	22	2		10	1	7	2
57 Motor vehicle accidents E810-E823	26	17	9			5		3	2
58 Home accidents (Home) E850-E949	10	8	2	1		1	1	1	
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	25	14	11	1		4		3	
60 Suicide E950-E959	10	8	2	1	1	1			
61 Homicide E960-E978	10	1	9		1		1		1
62 Other external causes E980-E999									

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 14 (continued)

Cause of Death	Cumberland		Lunenburg		Nottoway		Prince Edward	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	34	36	96	40	102	72	115	79
1 Bacillary dysentery and amebiasis ... 004,006								
2 Enteritis & other diarrheal diseases. 008,009			1					
3 Tuberculosis, all forms 010-019		1			1			
4 Whooping cough 033								
5 Strep. sore throat and scarlet fever 034								
6 Meningococcal infections 036	1							
7 Septicemia 038			1					
8 Acute poliomyelitis 040-043								
9 Measles 055								
10 Syphilis and its sequelae 090-097								
11 Other infective & parasitic diseases Residual								
12 Malignant neoplasms 140-209	7	6	16	4	18	18	18	3
13 Buccal cavity and pharynx 140-149								
14 Digestive organs and peritoneum ... 150-159	2	1	2	1	6	3	2	3
15 Respiratory system 160-163	1	1	4		5	3	4	5
16 Breast 174	1		1		2	1	3	
17 Genital organs 180-187		2	3		3	5	3	
18 Urinary organs 188,189			3			2		
19 Other and unspecified sites, 170-173, 190-199	2	2	1	2		2	4	1
20 Leukemia 204-207	1		1		1	1		
21 Other neoplasms of lymphatic and hematopoietic tissues ... 200-203, 208, 209			1	1	1	1	1	
22 Benign neoplasms and neoplasms of unspecified nature 210-239				1			1	
23 Diabetes mellitus 250			3		3	1	2	3
24 Avitaminoses and other nutritional deficiencies 260-269								1
25 Anemias 280-285								
26 Meningitis 320								
27 Major cardiovascular diseases 390-448	17	17	58	20	54	33	71	34
28 Diseases of heart ... 390-398, 402, 404, 410-429	10	13	39	16	40	24	41	15
29 Active rheumatic fever and chronic rheumatic heart disease 390-398		1			1			1
30 Hypertensive heart disease 402					1	2		1
31 Hypertensive heart and renal disease. 404								
32 Ischemic heart disease 410-414	9	10	38	13	34	17	37	10
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428								
34 All other forms of heart disease 420-423, 425-427, 429	1	2	1	3	4	5	4	6
35 Hypertension 400,401,403								
36 Cerebrovascular disease 430-438	5	2	12	4	10	6	12	11
37 Arteriosclerosis 440	2	2	6		2	1	3	4
38 Other diseases of arteries, arterioles, and capillaries 441-448			1		2	2		1
39 Acute bronchitis and bronchiolitis 466								
40 Influenza 470-474							1	
41 Pneumonia 480-486					4	3	3	1
42 Bronchitis, emphysema, and asthma ... 490-493						2		2
43 Peptic ulcer 531-533								
44 Appendicitis 540-543								
45 Hernia & intestinal obstruction . 550-553,560								
46 Cirrhosis of liver 571			1	1	1		2	1
47 Cholelithiasis, cholecystitis and cholangitis 574,575								
48 Nephritis and nephrosis 580-584								2
49 Infections of kidney 590								1
50 Hyperplasia of prostate 600								
51 Complications of pregnancy, childbirth, and the puerperium 630-678								
52 Congenital anomalies 740-759		2	1					
53 Certain causes of mortality in early infancy 760-778		2		2				2
54 Symptoms and ill-defined conditions . 780-796	1	2	1		1	1	1	3
55 All other diseases Residual	6	2	6	4	9	7	9	10
56 Accidents E800-E949	2	3	6	6	8	2	4	8
57 Motor vehicle accidents E810-E823	2	2	2	2	4			3
58 Home accidents (Home) E850-E949			3		1		1	1
59 All other accidents E800-E807, E825-E849 (Other) E850-E949		1	1	4	3	2	2	4
60 Suicide E950-E959			2		2	1	2	
61 Homicide E960-E978		1	1	1		4		
62 Other external causes E980-E999								

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 15

Cause of Death	Planning District 15			Charles City		Chesterfield		Goochland	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	5,098	3,626	1,472	15	35	507	74	47	27
1 Bacillary dysentery and amebiasis ... 004,006									
2 Enteritis & other diarrheal diseases. 008,009	4	4				1			
3 Tuberculosis, all forms ... 010-019	13	4	9						
4 Whooping cough ... 033									
5 Strep. sore throat and scarlet fever ... 034									
6 Meningococcal infections ... 036									
7 Septicemia ... 038	58	33	25			5	1	2	1
8 Acute poliomyelitis ... 040-043									
9 Measles ... 055									
10 Syphilis and its sequelae ... 090-097	2	1	1			1			
11 Other infective & parasitic diseases Residual	13	8	5		1	1			
12 Malignant neoplasms ... 140-209	1,022	707	315	2	6	101	13	7	2
13 Buccal cavity and pharynx ... 140-149	25	13	12			2	1		
14 Digestive organs and peritoneum ... 150-159	256	172	84		1	17	2	3	2
15 Respiratory system ... 160-163	302	219	83			40	3	2	3
16 Breast ... 174	75	55	20			6	3		
17 Genital organs ... 180-187	96	58	38			9	3		1
18 Urinary organs ... 188,189	46	30	16		1	2			
19 Other and unspecified sites. 170-173, 190-199	149	102	47	1	3	11	1	2	1
20 Leukemia ... 204-207	32	24	8		1	5			
21 Other neoplasms of lymphatic and hematopoietic tissues ... 200-203, 208, 209	41	34	7	1		3			1
22 Benign neoplasms and neoplasms of unspecified nature ... 210-239	6	6				4			
23 Diabetes mellitus ... 250	51	26	35			3	3	1	
24 Avitaminoses and other nutritional deficiencies ... 260-269	7	5	2						1
25 Anemias ... 280-285	14	9	5			1			
26 Meningitis ... 320	7	4	3						
27 Major cardiovascular diseases ... 390-448	2,549	1,397	652	11	14	253	27	27	11
28 Diseases of heart ... 390-398, 402, 404, 410-429	1,949	1,455	491	9	11	159	18	24	3
29 Active rheumatic fever and chronic rheumatic heart disease ... 390-398	16	13	3			2			
30 Hypertensive heart disease ... 402	21	10	11			2	1		
31 Hypertensive heart and renal disease. 404	12	11	1			1			
32 Ischemic heart disease ... 410-414	1,690	1,304	386	9	11	164	14	23	5
33 Chronic disease of endocardium and other myocardial insufficiency ... 424,428	15	11	4			1			
34 All other forms of heart disease ... 420-423, 425-427, 429	195	109	86			19	3	1	3
35 Hypertension ... 400,401,403	16	9	7			1			
36 Cerebrovascular disease ... 430-438	461	338	123	1	2	49	7	2	
37 Arteriosclerosis ... 440	64	46	18	1	1	6			1
38 Other diseases of arteries, arterioles, and capillaries ... 441-448	59	46	13			8	2	1	2
39 Acute bronchitis and bronchiolitis ... 466	4	4							
40 Influenza ... 470-474	7	7				1			
41 Pneumonia ... 480-486	175	139	36			16	3	3	
42 Bronchitis, emphysema, and asthma ... 490-493	39	32	7		1	2	1	2	
43 Peptic ulcer ... 531-533	8	4	4						
44 Appendicitis ... 540-543									
45 Hernia & intestinal obstruction ... 550-553,560	10	8	2			3	2		
46 Cirrhosis of liver ... 571	67	51	16			5	1		
47 Cholelithiasis, cholecystitis and cholangitis ... 574,575	6	4	2		1	1			
48 Nephritis and nephrosis ... 580-584	22	9	13		1	1			
49 Infections of kidney ... 590	9	5	4		1				
50 Hyperplasia of prostate ... 600	1		1						
51 Complications of pregnancy, childbirth, and the puerperium ... 630-678									
52 Congenital anomalies ... 740-759	35	25	10			5			
53 Certain causes of mortality in early infancy ... 760-778	63	29	34		1	9	3		
54 Symptoms and ill-defined conditions ... 780-796	26	16	10			7		1	
55 All other diseases ... Residual	437	299	138	2	3	41	10		3
56 Accidents ... E800-E949	275	183	92		4	30	6	1	2
57 Motor vehicle accidents ... E810-E823	104	79	25			17	1		
58 Home accidents ... (Home) E850-E949	76	56	20		2	5	1		
59 All other accidents ... E800-E807, E825-E849 (Other) E850-E949	95	48	47		2	3	4		2
60 Suicide ... E950-E959	78	70	8			11	1	3	
61 Homicide ... E960-E978	75	33	42		2	5	3		
62 Other external causes ... E980-E999	5	4	1						

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 15 (continued)

Cause of Death	Hanover		Henrico		New Kent		Powhatan		Richmond City	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	288	84	1,231	115	39	25	58	28	1,441	1,034
1 Bacillary dysentery and amebiasis 004-006									1	
2 Enteritis & other diarrheal diseases. 008,009			2						3	5
3 Tuberculosis, all forms 010-019		2	1	1				1		
4 Whooping cough 033										
5 Strep. sore throat and scarlet fever 034										
6 Meningococcal infections 036									13	16
7 Septicemia 038	2	1	11	3				3		
8 Acute poliomyelitis 040-043										
9 Measles 055										1
10 Syphilis and its sequelae 090-097			4						2	4
11 Other infective & parasitic diseases Residual										
12 Malignant neoplasms 140-209	56	17	254	26	7	3	11	6	269	235
13 Buccal cavity and pharynx 140-149			2					1	8	10
14 Digestive organs and peritoneum ... 150-159	14	8	61	4	2		3		72	67
15 Respiratory system 160-163	15	2	85	6	3	1	3	2	71	66
16 Breast 174	1		20	1			1		27	16
17 Genital organs 180-187	6	3	19	5				1	24	25
18 Urinary organs 188,189	6	1	11	2	1	1			10	11
19 Other and unspecified sites, 170-173, 190-199	13		35	7	1		3	2	36	33
20 Leukemia 204-207	1	2	13			1			5	3
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209		1	8	1					16	4
22 Benign neoplasms and neoplasms of unspecified nature 210-239									2	
23 Diabetes mellitus 250	3	2	7	4	1	1			11	25
24 Avitaminoses and other nutritional deficiencies 260-269			1				1		3	1
25 Anemias 280-285			2	1	1				5	4
26 Meningitis 320			2						2	3
27 Major cardiovascular diseases 390-448	162	36	625	46	23	14	25	5	771	428
28 Diseases of heart, 390-398, 402, 404, 410-429	128	23	473	34	20	12	17	5	598	350
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	1		3						7	3
30 Hypertensive heart disease 402	1		1			1			6	5
31 Hypertensive heart and renal disease. 404			4						5	1
32 Ischemic heart disease 410-414	118	21	424	33	20	9	15	3	531	290
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428			4						6	4
34 All other forms of heart disease 420-423, 425-427, 429	3	2	37	1		2	2	2	42	73
35 Hypertension 400, 401, 403	1		5	1					2	5
36 Cerebrovascular disease 430-438	21	9	115	7	2	2	7		141	36
37 Arteriosclerosis 440	3	4	16	3			1		14	2
38 Other diseases of arteries, arterioles, and capillaries 441-443	4		16	1	1			1	16	7
39 Acute bronchitis and bronchiolitis 466			3						2	
40 Influenza 470-474			3				1		2	
41 Pneumonia 480-486	6	1	46	3	2	1	1	2	55	26
42 Bronchitis, emphysema, and asthma ... 490-493			15	1					13	4
43 Peptic ulcer 531-533			1						2	
44 Appendicitis 540-543										
45 Hernia & intestinal obstruction, 550-553, 560			3						2	
46 Cirrhosis of liver 571		1	26	1			2	1	18	12
47 Cholelithiasis, cholecystitis and cholangitis 574, 575			2						1	1
48 Nephritis and nephrosis 580-584	3		4	2				1	1	3
49 Infections of kidney 590			3						2	3
50 Hyperplasia of prostate 600										1
51 Complications of pregnancy, childbirth, and the puerperium 630-678										
52 Congenital anomalies 740-759	1	2	10			1			8	7
53 Certain causes of mortality in early infancy 760-778	2	1	9	4			2		7	25
54 Symptoms and ill-defined conditions, 780-796		1	4	2				2	4	5
55 All other diseases Residual	23	10	104	9	2	3	6		121	100
56 Accidents E800-E949	20	9	56	11	2	2	5	5	69	52
57 Motor vehicle accidents E810-E823	15	4	24	4		2	5	3	17	9
58 Home accidents (Home) E850-E949	3	1	18	2					30	16
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	2	4	14	5	2			3	22	27
60 Suicide E950-E959	8		21		1		3		23	7
61 Homicide E960-E978	1	1	9	1					18	35
62 Other external causes E980-E999			3						1	1

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 16

Cause of Death	Planning District 16			Caroline		King George	
	Total	White	Nonwh	White	Nonwh	White	Nonwh
All causes	819	627	192	89	74	54	17
1 Bacillary dysentery and amebiasis ... 004,006							
2 Enteritis & other diarrheal diseases. 008,009							
3 Tuberculosis, all forms ... 010-019							
4 Whooping cough ... 033							
5 Strep. sore throat and scarlet fever ... 034							
6 Meningococcal infections ... 036							
7 Septicemia ... 038	6	2	4		2		
8 Acute poliomyelitis ... 040-043							
9 Measles ... 055							
10 Syphilis and its sequelae ... 090-097							
11 Other infective & parasitic diseases Residual	4	3	1				
12 Malignant neoplasms ... 140-209	175	137	38	18	17	9	4
13 Buccal cavity and pharynx ... 140-149	5	4	1	1	1	1	
14 Digestive organs and peritoneum ... 150-159	37	25	12	4	5		
15 Respiratory system ... 160-163	54	46	8	5	2	5	1
16 Breast ... 174	14	12	2	1			2
17 Genital organs ... 180-187	11	6	5	1	3		
18 Urinary organs ... 188,189	11	9	2	1	2	1	
19 Other and unspecified sites.170-173,190-199	24	20	4	3	2	1	
20 Leukemia ... 204-207	10	7	3	1	1		
21 Other neoplasms of lymphatic and hematopoietic tissues ... 200-203,208,209	9	8	1	1	1	1	
22 Benign neoplasms and neoplasms of unspecified nature ... 210-239	3	2	1			1	1
23 Diabetes mellitus ... 250	12	6	6	3	3		
24 Avitaminoses and other nutritional deficiencies ... 260-269	1	1					
25 Anemias ... 280-285	1		1				
26 Meningitis ... 320	2	2					
27 Major cardiovascular diseases ... 390-448	398	321	77	40	28	35	5
28 Diseases of heart ... 390-398,402,404,410-429	322	261	61	29	22	22	1
29 Active rheumatic fever and chronic rheumatic heart disease ... 390-398	2	2					
30 Hypertensive heart disease ... 402	2	1	1		1	1	
31 Hypertensive heart and renal disease. 404							
32 Ischemic heart disease ... 410-414	289	239	50	26	18	27	4
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	2	2		1			
34 All other forms of heart disease ... 420-423,425-427,429	27	17	10	2	4	1	
35 Hypertension ... 400,401,403							
36 Cerebrovascular disease ... 430-438	52	41	11	7	1	5	1
37 Arteriosclerosis ... 440	14	11	3	2	3	1	
38 Other diseases of arteries, arterioles, and capillaries ... 441-448	10	8	2	2	1		
39 Acute bronchitis and bronchiolitis ... 466							
40 Influenza ... 470-474	1	1					
41 Pneumonia ... 480-486	15	14	1	2	1		
42 Bronchitis, emphysema, and asthma ... 490-493	4	3	1		1		
43 Peptic ulcer ... 531-533	2	2		1			
44 Appendicitis ... 540-543	1		1		1		
45 Hernia & intestinal obstruction ... 550-553,560	2	1	1				
46 Cirrhosis of liver ... 571	15	10	5	3	2		1
47 Cholelithiasis, cholecystitis and cholangitis ... 574,575	6	5	1	1			
48 Nephritis and nephrosis ... 580-584	3	3					
49 Infections of kidney ... 590	1	1					
50 Hyperplasia of prostate ... 600							
51 Complications of pregnancy, childbirth, and the puerperium* ... 630-678	2		2				
52 Congenital anomalies ... 740-759	5	3	2	1	1		
53 Certain causes of mortality in early infancy ... 760-778	16	10	6	3	2		
54 Symptoms and ill-defined conditions ... 780-796	9	5	4		2		
55 All other diseases ... Residual	57	43	14	10	6	3	2
56 Accidents ... E800-E949	51	34	17	4	5	4	4
57 Motor vehicle accidents ... E810-E823	28	18	10	2	3	2	3
58 Home accidents ... (Home) E850-E949	7	3	4		1	1	
59 All other accidents ... E800-E807,E825-E849 (Other) E850-E949	16	13	3	2	1	1	1
60 Suicide ... E950-E959	14	11	3	2	1	2	
61 Homicide ... E960-E978	12	7	5	1	1		
62 Other external causes ... E980-E999	1		1		1		

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 16 (continued)

Cause of Death	Spotsylvania		Stafford		Fredericksburg	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	159	41	181	34	144	26
1 Bacillary dysentery and amebiasis ... 004,006						
2 Enteritis & other diarrheal diseases. 008,009						
3 Tuberculosis, all forms 010-019						
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036						
7 Septicemia 038	1	2	1			
8 Acute poliomyelitis 040-043						
9 Measles 055						
10 Syphilis and its sequelae 090-097						
11 Other infective & parasitic diseases Residual						
12 Malignant neoplasms 140-209	38	7	43	5	29	5
13 Buccal cavity and pharynx 140-149			2			
14 Digestive organs and peritoneum ... 150-159	8	3	4	2	9	2
15 Respiratory system 160-163	13	2	14		9	3
16 Breast 174	4		5		2	
17 Genital organs 180-187	2		2	2	1	
18 Urinary organs 188,189	1		5		1	
19 Other and unspecified sites.170-173,190-199	6		5	1	5	
20 Leukemia 204-207	3	2	3			
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	1		3		2	
22 Benign neoplasms and neoplasms of unspecified nature 210-239			1			1
23 Diabetes mellitus 250		1	3			1
24 Avitaminoses and other nutritional deficiencies 260-269			1			
25 Anemias 280-285						1
26 Meningitis 320					2	
27 Major cardiovascular diseases 390-448	87	18	80	15	79	11
28 Diseases of heart . 390-398,402,404,410-429	73	12	64	13	60	9
29 Acute rheumatic fever and chronic rheumatic heart disease 390-398	2					
30 Hypertensive heart disease 402						
31 Hypertensive heart and renal disease. 404						
32 Ischemic heart disease 410-414	65	10	62	10	59	8
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	1					
34 All other forms of heart disease 420-423,425-427,429	5	2	2	3	7	1
35 Hypertension 400,401,403						
36 Cerebrovascular disease 430-438	10	5	11	2	8	2
37 Arteriosclerosis 440	3		2		3	
38 Other diseases of arteries, arterioles, and capillaries 441-448	1	1	3		2	
39 Acute bronchitis and bronchiolitis 466						
40 Influenza 470-474					1	
41 Pneumonia 480-486	1		5		6	
42 Bronchitis, emphysema, and asthma ... 490-493	1				2	
43 Peptic ulcer 531-533					1	
44 Appendicitis 540-543						
45 Hernia & intestinal obstruction . 550-553,560		1	1			
46 Cirrhosis of liver 571	1	1	4		2	1
47 Cholelithiasis, cholecystitis and cholangitis 574,575	1	1	3			
48 Nephritis and nephrosis 580-584			2		1	
49 Infections of kidney 590			1			
50 Hyperplasia of prostate 600						
51 Complications of pregnancy, childbirth, and the puerperium 630-678				2		
52 Congenital anomalies 740-759			2	1		
53 Certain causes of mortality in early infancy 760-778	1	1	3	2	3	1
54 Symptoms and ill-defined conditions . 780-796	1	1	2	1	2	
55 All other diseases Residual	10	3	12	1	8	2
56 Accidents E800-E949	10	3	10	4	6	1
57 Motor vehicle accidents E810-E823	7	1	5	3	2	
58 Home accidents (Home) E850-E949		2	2	1		
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	3		3		4	1
60 Suicide E950-E959	3	1	3	1	1	
61 Homicide E960-E978	3	1	3	1		2
62 Other external causes E980-E999						

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 17

Cause of Death	Planning District 17			Lancaster		Northumberland		Richmond		Westmoreland	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	521	361	160	82	31	101	47	66	36	112	46
1 Bacillary dysentery and amebiasis ... 004,006											
2 Enteritis & other diarrheal diseases. 008,009	1		1								1
3 Tuberculosis, all forms ... 010-019	1	1		1							
4 Whooping cough ... 033											
5 Strep. sore throat and scarlet fever ... 034											
6 Meningococcal infections ... 036											
7 Septicemia ... 038	5	2	3	1	1			1		1	1
8 Acute poliomyelitis ... 040-043											
9 Measles ... 055											
10 Syphilis and its sequelae ... 090-097							1				
11 Other infective & parasitic diseases Residual	1		1								
12 Malignant neoplasms ... 140-209	115	77	38	17	10	17	10	12	9	31	9
13 Buccal cavity and pharynx ... 140-149	3	3								2	
14 Digestive organs and peritoneum ... 150-159	37	27	10	8	3	6	3	4	2	9	2
15 Respiratory system ... 160-163	44	24	20	4	7	5	5	5	4	10	4
16 Breast ... 174	8	7	1			4		1		2	1
17 Genital organs ... 180-187	9	5	4	3		1			2	1	2
18 Urinary organs ... 188,189											
19 Other and unspecified sites. 170-173, 190-199	8	7	1			1	1	2		4	
20 Leukemia ... 204-207	3	2	1	1					1	1	
21 Other neoplasms of lymphatic and hematopoietic tissues ... 200-203, 208, 209	3	2	1				1			2	
22 Benign neoplasms and neoplasms of unspecified nature ... 210-239											
23 Diabetes mellitus ... 250	3	2	1			1	1			1	
24 Avitaminoses and other nutritional deficiencies ... 260-269	4	2	2	1	1				1	1	
25 Anemias ... 280-285	1		1				1				
26 Meningitis ... 320											
27 Major cardiovascular diseases ... 390-448	275	208	67	49	14	65	19	38	15	36	19
28 Diseases of heart ... 390-398, 402, 404, 410-429	207	151	56	37	14	48	16	29	13	37	13
29 Infective rheumatic fever and chronic rheumatic heart disease ... 390-398	1	1				1					
30 Hypertensive heart disease ... 402	1	1									
31 Hypertensive heart and renal disease. 404											
32 Ischemic heart disease ... 410-414	183	134	49	33	13	39	14	28	10	34	12
33 Chronic disease of endocardium and other myocardial insufficiency ... 424, 428	3	2	1			2			1		
34 All other forms of heart disease ... 420-423, 425-427, 429	19	13	6	4	1	5	2	1	2	3	1
35 Hypertension ... 400, 401, 403	3	3		1				1		1	
36 Cerebrovascular disease ... 430-438	50	42	8	10		13	3	7	1	12	4
37 Arteriosclerosis ... 440	6	4	2			1		1		2	2
38 Other diseases of arteries, arterioles, and capillaries ... 441-443	9	8	1	1		3			1	4	
39 Acute bronchitis and bronchiolitis ... 466											
40 Influenza ... 470-474	1		1								
41 Pneumonia ... 480-486	15	9	6	3		4	4	1		1	2
42 Bronchitis, emphysema, and asthma ... 490-493	6	6				2		1		3	
43 Peptic ulcer ... 531-533											
44 Appendicitis ... 540-543											
45 Hernia & intestinal obstruction ... 550-553, 560	4	1	3	1	1		1		1	1	
46 Cirrhosis of liver ... 571	6	6		2		2		1			
47 Cholelithiasis, cholecystitis and cholangitis ... 574, 575											
48 Nephritis and nephrosis ... 580-584	4	2	2			1	1	1			1
49 Infections of kidney ... 590											
50 Hyperplasia of prostate ... 600											
51 Complications of pregnancy, childbirth, and the puerperium ... 630-678										2	1
52 Congenital anomalies ... 740-759	3	2	1								
53 Certain causes of mortality in early infancy ... 760-778	4	1	3								1
54 Symptoms and ill-defined conditions ... 780-796	2	1	1					1			1
55 All other diseases ... Residual	38	26	12	5	1	6	4	7	5	8	2
56 Accidents ... E800-E949	26	13	13	2	3	2	2	3	1	6	7
57 Motor vehicle accidents ... E810-E823	12	8	4		2	1		3		4	2
58 Home accidents ... (Home) E850-E949	3	1	2			1			1		1
59 All other accidents ... E800-E807, E825-E849 (Other) E850-E949	11	4	7	2	1		2			2	4
60 Suicide ... E950-E959	2	1	1						1	1	
61 Homicide ... E960-E978	4	1	3			1	2				1
62 Other external causes ... E980-E999											

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 18

Cause of Death	Planning District 18			Essex		Gloucester		King and Queen	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	638	440	198	42	30	134	50	44	24
1 Bacillary dysentery and amebiasis ... 004,006									
2 Enteritis & other diarrheal diseases. 008,009									
3 Tuberculosis, all forms 010-019	1	1							
4 Whooping cough 033									
5 Strep. sore throat and scarlet fever 034									
6 Meningococcal infections 036									
7 Septicemia 038	5	2	3		1		1	1	
8 Acute poliomyelitis 040-043									
9 Measles 055									
10 Syphilis and its sequelae 090-097									
11 Other infective & parasitic diseases Residual	1	1							
12 Malignant neoplasms 140-209	155	97	58	8	5	33	17	14	2
13 Buccal cavity and pharynx 140-149	4	2	2			1			
14 Digestive organs and peritoneum ... 150-159	35	20	15	2	1	6	3	1	1
15 Respiratory system 160-163	49	35	14	1	2	21	2	2	3
16 Breast 174	9	5	4	1	1	2	2		1
17 Genital organs 180-187	19	11	8		1	1	5	3	
18 Urinary organs 188,189	4	2	2						
19 Other and unspecified sites. 170-173, 190-199	18	12	6	2			3	4	1
20 Leukemia 204-207	6	3	3	1			1		
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	11	7	4	1		2	1		1
22 Benign neoplasms and neoplasms of unspecified nature 210-239	2	2				1			
23 Diabetes mellitus 250	7	2	5				1		3
24 Avitaminoses and other nutritional deficiencies 260-269	2		2		1				
25 Anemias 280-285	1		1		1				
26 Meningitis 320									
27 Major cardiovascular diseases 390-448	315	233	82	24	13	64	21	22	10
28 Diseases of heart . 390-398, 402, 404, 410-429	254	187	67	18	12	52	18	17	5
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	7	5	2			1	2		
30 Hypertensive heart disease 402	2	1	1			1			
31 Hypertensive heart and renal disease. 404	1	1							
32 Ischemic heart disease 410-414	208	159	49	16	12	46	11	12	5
33 Chronic disease of endocardium and other myocardial insufficiency .. 424, 428	1		1						
34 All other forms of heart disease 420-423, 425-427, 429	35	21	14	2		4	5	5	2
35 Hypertension 400, 401, 403	4	3	1			1			
36 Cerebrovascular disease 430-438	44	33	11	4	1	9	3	4	1
37 Arteriosclerosis 440	2	1	1						
38 Other diseases of arteries, arterioles, and capillaries 441-448	11	9	2	2		2		1	1
39 Acute bronchitis and bronchiolitis 466									
40 Influenza 470-474	19	10	9	1	2	1	4		
41 Pneumonia 480-486	6	4	2		1	1		1	
42 Bronchitis, emphysema, and asthma ... 490-493									
43 Peptic ulcer 531-533									
44 Appendicitis 540-543	1		1						1
45 Hernia & intestinal obstruction . 550-553, 560	1		1						
46 Cirrhosis of liver 571	7	6	1		1	3		1	
47 Cholelithiasis, cholecystitis and cholangitis 574, 575	4	1	3				2		
48 Nephritis and nephrosis 580-584	2	1	1						
49 Infections of kidney 590									
50 Hyperplasia of prostate 600	1		1						
51 Complications of pregnancy, childbirth, and the puerperium 630-678									
52 Congenital anomalies 740-759	9	7	2			2	1		
53 Certain causes of mortality in early infancy 760-778	6	3	3	1	1	2	1		
54 Symptoms and ill-defined conditions . 780-796	5	2	3						
55 All other diseases Residual	37	29	8	2	4	12	1	2	
56 Accidents E800-E949	45	34	11	4		15	1	3	2
57 Motor vehicle accidents E810-E823	28	21	7	2		9	1	3	1
58 Home accidents (Home) E850-E949	8	6	2	2		1			1
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	9	7	2			5			
60 Suicide E950-E959	5	5		1					
61 Homicide E960-E978	1		1						
62 Other external causes E980-E999									

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 18 (continued)

Cause of Death	King William		Mathews		Middlesex	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	59	48	91	16	70	30
1 Bacillary dysentery and amebiasis ... 004,006						
2 Enteritis & other diarrheal diseases. 008,009						
3 Tuberculosis, all forms 010-019			1			
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036						
7 Septicemia 038		1			1	
8 Acute poliomyelitis 040-043						
9 Measles 055						
10 Syphilis and its sequelae 090-097						
11 Other infective & parasitic diseases Residual					1	
12 Malignant neoplasms 140-209	11	14	22	5	9	9
13 Buccal cavity and pharynx 140-149	1	2				
14 Digestive organs and peritoneum ... 150-159	2	5	4		2	5
15 Respiratory system 160-163	3	2	6	3	2	2
16 Breast 174			2			
17 Genital organs 180-187	2	1	3		2	1
18 Urinary organs 188,189		1		1	1	
19 Other and unspecified sites.170-173,190-199	2	1	3	1	1	
20 Leukemia 204-207	1				1	1
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209		2	4			
22 Benign neoplasms and neoplasms of unspecified nature 210-239			1			
23 Diabetes mellitus 250	1	1	1			
24 Avitaminoses and other nutritional deficiencies 260-269						1
25 Anemias 280-285						
26 Meningitis 320						
27 Major cardiovascular diseases 390-448	30	17	52	8	41	13
28 Diseases of heart . 390-398,402,404,410-429	25	13	43	5	32	11
29 Acute rheumatic fever and chronic rheumatic heart disease 390-398	2		1		1	
30 Hypertensive heart disease 402				1		
31 Hypertensive heart and renal disease. 404			1			
32 Ischemic heart disease 410-414	19	7	38	3	28	10
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428		1				
34 All other forms of heart disease 420-423,425-427,429	4	5	3	1	3	1
35 Hypertension 400,401,403			2	1		
36 Cerebrovascular disease 430-438	5	4	5	1	6	1
37 Arteriosclerosis 440			1	1		
38 Other diseases of arteries, arterioles, and capillaries 441-448			1		3	1
39 Acute bronchitis and bronchiolitis 466						
40 Influenza 470-474						
41 Pneumonia 480-486	1		3	1	4	2
42 Bronchitis, emphysema, and asthma ... 490-493	1	1	1			
43 Peptic ulcer 531-533						
44 Appendicitis 540-543						
45 Hernia & intestinal obstruction . 550-553,560		1				
46 Cirrhosis of liver 571	1				1	
47 Cholelithiasis, cholecystitis and cholangitis 574,575			1	1		
48 Nephritis and nephrosis 580-584			1			1
49 Infections of kidney 590						
50 Hyperplasia of prostate 600		1				
51 Complications of pregnancy, childbirth, and the puerperium 630-678						
52 Congenital anomalies 740-759	4				1	1
53 Certain causes of mortality in early infancy 760-778		1				
54 Symptoms and ill-defined conditions . 780-796		1	1			2
55 All other diseases Residual	5	3	1		7	
56 Accidents E800-E949	4	6	6	1	2	1
57 Motor vehicle accidents E810-E823	3	3	3	1	1	1
58 Home accidents (Home) E850-E949		1	3			
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	1	2			1	
60 Suicide E950-E959	1				3	
61 Homicide E960-E978		1				
62 Other external causes E980-E999						

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 19

Cause of Death	Planning District 19			Dinwiddie		Greensville		Prince George		Surry	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,410	847	563	105	77	48	63	30	33	42	34
1 Bacillary dysentery and amebiasis ... 004,006											
2 Enteritis & other diarrheal diseases. 008,009	1		1								1
3 Tuberculosis, all forms 010-019	1		1								
4 Whooping cough 033											
5 Strep. sore throat and scarlet fever 034											
6 Meningococcal infections 036											
7 Septicemia 038	14	7	7	2	1		1	2			
8 Acute poliomyelitis 040-043											
9 Measles 055											
10 Syphilis and its sequelae 090-097											
11 Other infective & parasitic diseases Residual	4	2	2	1	2	1					
12 Malignant neoplasms 140-209	302	185	117	16	18	15	10	15	7	9	3
13 Buccal cavity and pharynx 140-149	12	7	5	1	1		1	1			
14 Digestive organs and peritoneum ... 150-159	70	36	34	3	6	2	3	3	2	4	3
15 Respiratory system 160-163	85	62	23	4	2	7		3	2	2	
16 Breast 174	27	20	7	1	1	1	1	2			2
17 Genital organs 180-187	35	16	19	4	4		1	4			2
18 Urinary organs 188,189	15	9	6	1		1		2			
19 Other and unspecified sites.170-173,190-199	35	20	15	2	2	1	3		2	2	
20 Leukemia 204-207	7	6	1			1	1				
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	16	9	7		2	2			1		1
22 Benign neoplasms and neoplasms of unspecified nature 210-239	4	3	1				1	1	1		
23 Diabetes mellitus 250	26	12	14		1						
24 Avitaminoses and other nutritional deficiencies 260-269	1	1									
25 Anemias 280-285	2		2								
26 Meningitis 320	1	1									
27 Major cardiovascular diseases 390-448	688	429	259	59	36	23	28	35	11	24	19
28 Diseases of heart . 390-398,402,404,410-429	519	331	188	48	25	18	22	24	7	18	12
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	6	6		1				2			
30 Hypertensive heart disease 402	8	5	3		1						
31 Hypertensive heart and renal disease. 404	5	3	2					1			
32 Ischemic heart disease 410-414	459	292	167	41	23	17	20	20	7	17	11
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	3	2	1								
34 All other forms of heart disease 420-423,425-427,429	38	23	15	6	2	1	2	1		1	1
35 Hypertension 400,401,403	6	3	3								
36 Cerebrovascular disease 430-438	141	80	61	10	9	4	5	8	3	6	5
37 Arteriosclerosis 440	10	4	6		1		1		1		
38 Other diseases of arteries, arterioles, and capillaries 441-448	12	11	1	1		1		3			
39 Acute bronchitis and bronchiolitis 466	1	1		1							
40 Influenza 470-474	2		1								
41 Pneumonia 480-486	33	15	18	2	3		2		2	1	
42 Bronchitis, emphysema, and asthma ... 490-493	10	9	1	2							
43 Peptic ulcer 531-533	1	1									
44 Appendicitis 540-543											
45 Hernia & intestinal obstruction . 550-553,560	4	2	2				1	1			
46 Cirrhosis of liver 571	16	13	3	2			1	2		2	
47 Cholelithiasis, cholecystitis and cholangitis 574,575	1		1								
48 Nephritis and nephrosis 580-584	5	2	3					1		1	
49 Infections of kidney 590	1	1									
50 Hyperplasia of prostate 600											
51 Complications of pregnancy, childbirth, and the puerperium 630-678											
52 Congenital anomalies 740-759	12	6	6				1			1	
53 Certain causes of mortality in early infancy 760-778	13	5	8				1	3	1	1	
54 Symptoms and ill-defined conditions . 780-796	13	6	7				2	1	1		1
55 All other diseases Residual	114	70	44	11	4	3	4	8	3	2	3
56 Accidents E800-E949	95	46	49	5	10	3	9	7	7	2	
57 Motor vehicle accidents E810-E823	45	22	23	2	3	2	5	5	6		
58 Home accidents (Home) E850-E949	19	11	8	1	3			2			
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	31	13	18	2	4	1	4		1	2	
60 Suicide E950-E959	23	21	2	3		3	1	2			
61 Homicide E960-E978	20	6	14	1	2		1	1			
62 Other external causes E980-E999	1	1									

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 19 (continued)

Cause of Death	Sussex		Colonial Heights		Emporia		Hopewell		Petersburg	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	44	61	113	2	43	20	158	34	214	239
1 Bacillary dysentery and amebiasis ... 004,006										
2 Enteritis & other diarrheal diseases. 008,009		1								
3 Tuberculosis, all forms 010-019										
4 Whooping cough 033										
5 Strep. sore throat and scarlet fever 034										
6 Meningococcal infections 036			1							
7 Septicemia 038	1	2	1				1			3
8 Acute poliomyelitis 040-043										
9 Measles 055										
10 Syphilis and its sequelae 090-097										
11 Other infective & parasitic diseases Residual										
12 Malignant neoplasms 140-209	8	11	27		11	3	38	9	46	50
13 Buccal cavity and pharynx 140-149		1	2				1		2	1
14 Digestive organs and peritoneum ... 150-159		2	5		2	1	5	4	12	1
15 Respiratory system 160-163	5	2	8		3		16	1	14	1
16 Breast 174			4		1	1	5		5	2
17 Genital organs 180-187	1	3	2		1			2	3	7
18 Urinary organs 188,189			1				3	1		1
19 Other and unspecified sites.170-173,190-199	1	3	3		3	1	4		4	1
20 Leukemia 204-207			2		1				2	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	1						3	1	3	2
22 Benign neoplasms and neoplasms of unspecified nature 210-239							1		2	1
23 Diabetes mellitus 250	1	1	2		1	2	1		3	1
24 Avitaminoses and other nutritional deficiencies 260-269									1	
25 Anemias 280-285										2
26 Meningitis 320									1	
27 Major cardiovascular diseases 390-448	18	29	52	1	22	12	20	13	115	110
28 Diseases of heart 390-398,402,404,410-429	14	27	44	1	17	10	66	10	32	73
29 Active rheumatic fever and chronic rheumatic heart disease 390-398			1				1		1	
30 Hypertensive heart disease 402			1				3			2
31 Hypertensive heart and renal disease. 404		1							2	
32 Ischemic heart disease 410-414	12	24	38	1	16	10	55	10	76	31
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428			1						1	
34 All other forms of heart disease 420-423,425-427,429	2	2	3		1		7		1	3
35 Hypertension 400,401,403									3	2
36 Cerebrovascular disease 430-438	2	2	7		5	2	11	2	27	32
37 Arteriosclerosis 440							1	1	3	2
38 Other diseases of arteries, arterioles, and capillaries 441-448	2		1				2		1	1
39 Acute bronchitis and bronchiolitis 466										
40 Influenza 470-474	1									
41 Pneumonia 480-486	1	2		1	1		6	2	4	6
42 Bronchitis, emphysema, and asthma ... 490-493	1		3				1		1	
43 Peptic ulcer 531-533									1	
44 Appendicitis 540-543										
45 Hernia & intestinal obstruction . 550-553,560							1			
46 Cirrhosis of liver 571	1		2		1				3	2
47 Cholelithiasis, cholecystitis and cholangitis 574,575										
48 Nephritis and nephrosis 580-584		1								2
49 Infections of kidney 590							1			
50 Hyperplasia of prostate 600										
51 Complications of pregnancy, childbirth, and the puerperium 630-678										
52 Congenital anomalies 740-759		1	3			1	1		1	3
53 Certain causes of mortality in early infancy 760-778			1						1	6
54 Symptoms and ill-defined conditions . 780-796		1	1				2		2	2
55 All other diseases Residual	6	4	10		1		13	3	16	23
56 Accidents E800-E949	3	7	6		2	1	8	5	10	10
57 Motor vehicle accidents E810-E823	1	5	3				6	2	3	2
58 Home accidents (Home) E850-E949	1	1					1	2	3	2
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	1	1	3		2	1	1	1	1	6
60 Suicide E950-E959	2	1	2		2		4		3	
61 Homicide E960-E978	1		2		2			2		9
62 Other external causes E980-E999										

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 20

Cause of Death	Planning District 20			Isle of Wight		Southampton		Chesapeake	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	6,134	3,814	2,320	96	70	93	115	520	225
1 Bacillary dysentery and amebiasis ... 004,006									
2 Enteritis & other diarrheal diseases. 008,009	12	5	7		1			2	
3 Tuberculosis, all forms 010-019	11	4	7			1		1	
4 Whooping cough 033									
5 Strep. sore throat and scarlet fever 034									
6 Meningococcal infections 036									
7 Septicemia 038	47	26	21	2			2	7	2
8 Acute poliomyelitis 040-043									
9 Measles 055	1	1							
10 Syphilis and its sequelae 090-097	2		2						
11 Other infective & parasitic diseases Residual	13	7	6						
12 Malignant neoplasms 140-209	1,234	807	427	19	9	17	19	105	41
13 Buccal cavity and pharynx 140-149	30	21	9					2	1
14 Digestive organs and peritoneum ... 150-159	298	192	106	4	2	4	2	23	5
15 Respiratory system 160-163	361	247	114	4	6	9	6	36	14
16 Breast 174	92	64	28	3			3	10	2
17 Genital organs 180-187	138	71	67	2		1	4	12	10
18 Urinary organs 188,189	59	44	15	2			1	3	1
19 Other and unspecified sites.170-173,190-199	173	109	64	2	1	3	2	11	5
20 Leukemia 204-207	35	26	9	2				4	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	48	33	15					2	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	14	8	6	1				2	
23 Diabetes mellitus 250	94	46	48		1	1	1	5	
24 Avitaminoses and other nutritional deficiencies 260-269	10	7	3						
25 Anemias 280-285	7	2	5						
26 Meningitis 320	10	7	3				1	3	1
27 Major cardiovascular diseases 390-448	2,988	1,372	1,116	47	37	50	62	253	97
28 Diseases of heart . 390-398,402,404,410-429	2,276	1,478	798	37	24	42	44	213	77
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	40	29	11	1			1	3	
30 Hypertensive heart disease 402	19	7	12						
31 Hypertensive heart and renal disease. 404	27	5	22						3
32 Ischemic heart disease 410-414	1,855	1,263	592	29	23	35	41	195	60
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	84	39	45	1				3	5
34 All other forms of heart disease 420-423,425-427,429	251	135	116	6	1	7	2	16	3
35 Hypertension 400,401,403	25	7	18		1		1		4
36 Cerebrovascular disease 430-438	558	301	257	10	8	8	14	24	14
37 Arteriosclerosis 440	49	35	14		1		1	5	
38 Other diseases of arteries, arterioles, and capillaries 441-448	80	51	29		3		2	3	2
39 Acute bronchitis and bronchiolitis 466	2	1	1						
40 Influenza 470-474	10	10		2					
41 Pneumonia 480-486	160	101	59	3	1	2	1	10	5
42 Bronchitis, emphysema, and asthma ... 490-493	52	36	16	2		1	1	5	4
43 Peptic ulcer 531-533	8	3	5					1	2
44 Appendicitis 540-543	2	1	1						
45 Hernia & intestinal obstruction . 550-553,560	18	12	6	1			1	5	1
46 Cirrhosis of liver 571	104	56	48		1	3	3	5	12
47 Cholelithiasis, cholecystitis and cholangitis 574,575	6	3	3						
48 Nephritis and nephrosis 580-584	35	14	21						3
49 Infections of kidney 590	9	4	5					1	1
50 Hyperplasia of prostate 600	1	1						1	
51 Complications of pregnancy, childbirth, and the puerperium 630-678	2		2						1
52 Congenital anomalies 740-759	65	46	19	1	3	1		3	1
53 Certain causes of mortality in early infancy 760-778	103	43	60	2	3	1	3	8	12
54 Symptoms and ill-defined conditions . 780-796	82	42	40		1	1		4	3
55 All other diseases Residual	499	318	181	7	9	7	9	44	23
56 Accidents E800-E949	336	218	118	4	2	4	3	33	13
57 Motor vehicle accidents E810-E823	141	95	46	2	1	2	4	11	5
58 Home accidents (Home) E850-E949	104	56	48		1		2	11	5
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	91	67	24	2		1	2	11	2
60 Suicide E950-E959	100	82	18	5		1		10	1
61 Homicide E960-E978	92	28	64		2	2	3	4	5
62 Other external causes E980-E999	5	3	2					1	

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 20 (continued)

Cause of Death	Franklin City		Norfolk		Portsmouth		Suffolk		Virginia Beach	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	38	57	1,283	1,001	615	433	253	265	916	154
1 Bacillary dysentery and amebiasis ... 004,006										
2 Enteritis & other diarrheal diseases. 008,009		1	1	3	1			1	1	
3 Tuberculosis, all forms 010-019				6	1					
4 Whooping cough 033										
5 Strep. sore throat and scarlet fever 034										
6 Meningococcal infections 036										
7 Septicemia 038			8	12	2	2		1	7	2
8 Acute poliomyelitis 040-043										
9 Measles 055							1			
10 Syphilis and its sequelae 090-097				2						
11 Other infective & parasitic diseases Residual				1	1	4			3	
12 Malignant neoplasms 140-209	10	11	256	176	129	99	50	42	221	30
13 Buccal cavity and pharynx 140-149		1	12	2	3	3	1		3	1
14 Digestive organs and peritoneum 150-159		2	60	47	33	26	10	12	58	7
15 Respiratory system 160-163	4	1	79	51	43	20	16	9	56	7
16 Breast 174	3		14	9	9	6	4	3	21	5
17 Genital organs 180-187	1	4	20	23	10	15	5	7	20	4
18 Urinary organs 188,189			15	6	4	5	2	2	15	
19 Other and unspecified sites. 170-173, 190-199	1	2	36	25	17	17	9	8	30	4
20 Leukemia 204-207		1	8	6	2	1		1	10	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209			12	7	8	6	3		3	2
22 Benign neoplasms and neoplasms of unspecified nature 210-239			2	4	2	2			1	
23 Diabetes mellitus 250			14	19	12	9	1	14	13	3
24 Avitaminoses and other nutritional deficiencies 260-269			2	1	1		1		2	1
25 Anemias 280-285				3	1	2	1			
26 Meningitis 320			1		1					
27 Major cardiovascular diseases 390-448	19	31	648	493	329	191	133	143	390	62
28 Diseases of heart 390-398, 402, 404, 410-429	17	19	499	351	265	130	99	109	301	44
29 Active rheumatic fever and chronic rheumatic heart disease 390-398			16	6	4	4			4	
30 Hypertensive heart disease 402			3	3		2		3	3	1
31 Hypertensive heart and renal disease. 404				2	2	16	2		1	
32 Ischemic heart disease 410-414	15	16	415	256	229	70	30	92	255	34
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428		1	27	31	3	7			5	1
34 All other forms of heart disease 420-423, 425-427, 429	2	2	38	53	27	31	6	14	23	5
35 Hypertension 400,401,403			5	8		1		2	2	1
36 Cerebrovascular disease 430-438	1	10	119	117	52	53	27	31	60	10
37 Arteriosclerosis 440	1		9	7	2	2	5		13	3
38 Other diseases of arteries, arterioles, and capillaries 441-448		2	16	10	10	5	2	1	14	4
39 Acute bronchitis and bronchiolitis 466		1							1	
40 Influenza 470-474			3				3		2	
41 Pneumonia 480-486		1	36	27	17	10	6	7	27	
42 Bronchitis, emphysema, and asthma ... 490-493	1		11	8	8	3	3		4	
43 Peptic ulcer 531-533			1	3	1					
44 Appendicitis 540-543							1			
45 Hernia & intestinal obstruction . 550-553,560			2	4	1		1		2	
46 Cirrhosis of liver 571	1		19	29	10	7	5	4	12	2
47 Cholelithiasis, cholecystitis and cholangitis 574,575			1	2	1	1			1	
48 Nephritis and nephrosis 580-584			2	9	2	7	3	2	6	
49 Infections of kidney 590			1	4			2			
50 Hyperplasia of prostate 600										
51 Complications of pregnancy, childbirth, and the puerperium 630-678										
52 Congenital anomalies 740-759		1	17	5	4	3	2	4	18	2
53 Certain causes of mortality in early infancy 760-778		1	14	20	3	12	1	2	14	7
54 Symptoms and ill-defined conditions . 780-796	1		18	19	8	10	1	5	9	2
55 All other diseases Residual	4	4	115	73	40	32	21	20	80	11
56 Accidents E800-E949	2	5	64	38	26	27	11	7	74	18
57 Motor vehicle accidents E810-E823		4	21	14	12	7	5	5	41	6
58 Home accidents (Home) E850-E949		1	24	17	6	12	3	1	11	8
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	2		19	7	8	8	2	1	22	4
60 Suicide E950-E959			30	11	11	1	1	3	24	2
61 Homicide E960-E978		1	16	28	3	10	2	9	1	6
62 Other external causes E980-E999			1			1			1	1

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 21

Cause of Death	Planning District 21			James City County		York		Hampton	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	2,285	1,509	776	94	58	115	35	544	253
1 Bacillary dysentery and amebiasis ... 004,006									
2 Enteritis & other diarrheal diseases. 008,009									
3 Tuberculosis, all forms 010-019									
4 Whooping cough 033									
5 Strep. sore throat and scarlet fever 034									
6 Meningococcal infections 036	2	1	1						1
7 Septicemia 038	19	10	9					6	
8 Acute poliomyelitis 040-043									
9 Measles 055									
10 Syphilis and its sequelae 090-097	1	1							
11 Other infective & parasitic diseases Residual	7	5	2					1	1
12 Malignant neoplasms 140-209	492	312	180	17	12	28	6	100	71
13 Buccal cavity and pharynx 140-149	11	4	7					2	5
14 Digestive organs and peritoneum 150-159	144	83	61	2	5	5	2	31	22
15 Respiratory system 160-163	140	94	46	11	2	9	3	27	13
16 Breast 174	41	28	13		1	4		7	4
17 Genital organs 180-187	33	20	13		1	2		9	5
18 Urinary organs 188,189	18	12	6	1		2		3	1
19 Other and unspecified sites. 170-173, 190-199	62	38	24	3	2	4	1	11	10
20 Leukemia 204-207	14	8	6		1	1		4	2
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	29	25	4			1		6	4
22 Benign neoplasms and neoplasms of unspecified nature 210-239	10	5	5	1	1			2	2
23 Diabetes mellitus 250	34	18	16	3	2		3	5	1
24 Avitaminoses and other nutritional deficiencies 260-269	3	2	1						1
25 Anemias 280-285	5	4	1			1		1	1
26 Meningitis 320	1	1						1	
27 Major cardiovascular diseases 390-448	1,056	725	331	40	26	54	15	268	95
28 Diseases of heart 390-398, 402, 404, 410-429	794	550	244	28	17	43	10	203	70
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	10	7	3	1	1			1	1
30 Hypertensive heart disease 402	5	1	4			1			2
31 Hypertensive heart and renal disease. 404	3		3						
32 Ischemic heart disease 410-414	711	500	211	27	14	38	10	184	59
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	4	4				1		1	
34 All other forms of heart disease 420-423, 425-427, 429	61	38	23		2	3		17	8
35 Hypertension 400, 401, 403	5	3	2		1			1	
36 Cerebrovascular disease 430-438	202	132	70	11	6	7	5	48	19
37 Arteriosclerosis 440	15	10	5	1				3	2
38 Other diseases of arteries, arterioles, and capillaries 441-448	40	30	10		2	4		13	4
39 Acute bronchitis and bronchiolitis 466	2	1	1			1			1
40 Influenza 470-474	3	2	1					2	1
41 Pneumonia 480-486	61	45	16	6		2		18	4
42 Bronchitis, emphysema, and asthma ... 490-493	21	18	3	2	1	1		6	1
43 Peptic ulcer 531-533	5	5						2	
44 Appendicitis 540-543	2	1	1					1	
45 Hernia & intestinal obstruction . 550-553, 560	5	3	2					1	1
46 Cirrhosis of liver 571	34	20	14	4	2	2	2	7	1
47 Cholelithiasis, cholecystitis and cholangitis 574, 575	5	5		1				1	
48 Nephritis and nephrosis 580-584	14	6	8	1		1		1	1
49 Infections of kidney 590	3	2	1					1	
50 Hyperplasia of prostate 600	1	1							
51 Complications of pregnancy, childbirth, and the puerperium 630-678									
52 Congenital anomalies 740-759	16	10	6			1		5	4
53 Certain causes of mortality in early infancy 760-778	29	14	15	1	1		1	5	3
54 Symptoms and ill-defined conditions . 780-796	16	11	5	1		2		4	2
55 All other diseases Residual	224	146	78	6	3	7	5	63	29
56 Accidents E800-E949	140	92	48	8	8	11	1	29	19
57 Motor vehicle accidents E810-E823	55	37	18	4	5	2	1	13	5
58 Home accidents (Home) E850-E949	45	29	16	2	2	4		10	7
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	40	26	14	2	1	5		6	7
60 Suicide E950-E959	43	35	8	2	2	3	1	11	3
61 Homicide E960-E978	30	7	23	1			1	3	9
62 Other external causes E980-E999	1	1							

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 21 (continued)

Cause of Death	Newport News		Poquoson		Williamsburg	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	646	409	52		58	21
1 Bacillary dysentery and amebiasis ... 004,006						
2 Enteritis & other diarrheal diseases. 008,009						
3 Tuberculosis, all forms 010-019						
4 Whooping cough 033						
5 Strep. sore throat and scarlet fever 034						
6 Meningococcal infections 036	1					
7 Septicemia 038	3	7			1	1
8 Acute poliomyelitis 040-043						
9 Measles 055						
10 Syphilis and its sequelae 090-097	1					
11 Other infective & parasitic diseases Residual	4	1				
12 Malignant neoplasms 140-209	147	87	11		9	4
13 Buccal cavity and pharynx 140-149	2	2				
14 Digestive organs and peritoneum ... 150-159	40	30	2		3	2
15 Respiratory system 160-163	38	22	6		3	1
16 Breast 174	17	8				
17 Genital organs 180-187	8	7	1			
18 Urinary organs 188,189	6	5				
19 Other and unspecified sites,170-173,190-199	20	10				1
20 Leukemia 204-207	2	3			1	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203,208,209	14		2		2	
22 Benign neoplasms and neoplasms of unspecified nature 210-239	1	2	1			
23 Diabetes mellitus 250	8	9			1	1
24 Avitaminoses and other nutritional deficiencies 260-269	2					
25 Anemias 280-285	1		1			
26 Meningitis 320						
27 Major cardiovascular diseases 390-448	309	185	25		29	10
28 Diseases of heart 390-398,402,404,410-429	236	138	22		13	9
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	4	1			1	
30 Hypertensive heart disease 402		2				
31 Hypertensive heart and renal disease, 404		3				
32 Ischemic heart disease 410-414	214	119	21		16	9
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	2					
34 All other forms of heart disease 420-423,425-427,429	16	13	1		1	
35 Hypertension 400,401,403	2	1				
36 Cerebrovascular disease 430-438	56	40	2		8	
37 Arteriosclerosis 440	3	3			3	
38 Other diseases of arteries, arterioles, and capillaries 441-448	12	3	1			1
39 Acute bronchitis and bronchiolitis 466						
40 Influenza 470-474						
41 Pneumonia 480-486	15	12	1		3	
42 Bronchitis, emphysema, and asthma ... 490-493	7	1	1		1	
43 Peptic ulcer 531-533	1		1		1	
44 Appendicitis 540-543		1				
45 Hernia & intestinal obstruction . 550-553,560	1	1			1	
46 Cirrhosis of liver 571	6	7			1	2
47 Cholelithiasis, cholecystitis and cholangitis 574,575	3					
48 Nephritis and nephrosis 580-584	2	7	1			
49 Infections of kidney 590		1			1	
50 Hyperplasia of prostate 600	1					
51 Complications of pregnancy, childbirth, and the puerperium 630-678						
52 Congenital anomalies 740-759	4	2				
53 Certain causes of mortality in early infancy 760-778	8	10				
54 Symptoms and ill-defined conditions . 780-796	4	3				
55 All other diseases Residual	57	39	6		7	2
56 Accidents E800-E949	39	19	2		3	1
57 Motor vehicle accidents E810-E823	15	6	2		1	1
58 Home accidents (Home) E850-E949	12	7			1	
59 All other accidents E800-E807,E825-E849 (Other) E850-E949	12	6			1	
60 Suicide E950-E959	17	2	2			
61 Homicide E960-E978	3	13				
62 Other external causes E980-E999	1					

TABLE 44
DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1978
PLANNING DISTRICT 22

Cause of Death	Planning District 22			Accomack		Northampton	
	Total	White	Nonwh	White	Nonwh	White	Nonwh
All causes	627	393	234	294	141	99	93
1 Bacillary dysentery and amebiasis ... 004,006							
2 Enteritis & other diarrheal diseases. 008,009							
3 Tuberculosis, all forms 010-019	2		2		1		1
4 Whooping cough 033							
5 Strep. sore throat and scarlet fever 034							
6 Meningococcal infections 036							
7 Septicemia 038	3		3		2		1
8 Acute poliomyelitis 040-043							
9 Measles 055							
10 Syphilis and its sequelae 090-097							
11 Other infective & parasitic diseases Residual	5	3	2	3	1		1
12 Malignant neoplasms 140-209	132	83	49	65	33	18	15
13 Buccal cavity and pharynx 140-149	1		1				1
14 Digestive organs and peritoneum ... 150-159	36	26	10	21	6	5	4
15 Respiratory system 160-163	32	18	14	13	11	5	3
16 Breast 174	11	7	4	6	2	1	2
17 Genital organs 180-187	11	7	4	4	3	3	1
18 Urinary organs 188,189	4	4		4			
19 Other and unspecified sites. 170-173, 190-199	19	10	9	8	6	2	3
20 Leukemia 204-207	11	9	2	7	2	2	
21 Other neoplasms of lymphatic and hematopoietic tissues 200-203, 208, 209	7	2	5	2	3		2
22 Benign neoplasms and neoplasms of unspecified nature 210-239	2	2		2			
23 Diabetes mellitus 250	10	5	5	4	3	1	2
24 Avitaminoses and other nutritional deficiencies 260-269							
25 Anemias 280-285	1	1				1	
26 Meningitis 320	1		1		1		
27 Major cardiovascular diseases 390-448	320	207	113	148	70	59	43
28 Diseases of heart . 390-398, 402, 404, 410-429	212	141	71	100	42	41	29
29 Active rheumatic fever and chronic rheumatic heart disease 390-398	4	3	1		1	3	
30 Hypertensive heart disease 402	2	1	1		1	1	
31 Hypertensive heart and renal disease. 404	1	1		1			
32 Ischemic heart disease 410-414	191	128	63	93	37	35	26
33 Chronic disease of endocardium and other myocardial insufficiency .. 424,428	3	3		2		1	
34 All other forms of heart disease 420-423, 425-427, 429	11	5	6	4	3	1	3
35 Hypertension 400, 401, 403	2	1	1		1	1	
36 Cerebrovascular disease 430-438	31	50	31	39	20	11	11
37 Arteriosclerosis 440	15	7	8	4	5	3	3
38 Other diseases of arteries, arterioles, and capillaries 441-444	10	8	2	5	2	3	
39 Acute bronchitis and bronchiolitis 466							
40 Influenza 470-474	3	3		3			
41 Pneumonia 480-486	18	11	7	10	3	1	4
42 Bronchitis, emphysema, and asthma ... 490-493	12	10	2	9	1	1	1
43 Peptic ulcer 531-533	1	1		1			
44 Appendicitis 540-543							
45 Hernia & intestinal obstruction . 550-553, 560	2	1	1	1			1
46 Cirrhosis of liver 571	5	3	2	2	1	1	1
47 Cholelithiasis, cholecystitis and cholangitis 574, 575							
48 Nephritis and nephrosis 580-584	2		2				2
49 Infections of kidney 590	4	4		4			
50 Hyperplasia of prostate 600	2	1	1			1	1
51 Complications of pregnancy, childbirth, and the puerperium 630-678							
52 Congenital anomalies 740-759	3	1	2	1	2		
53 Certain causes of mortality in early infancy 760-778	4		4		1		3
54 Symptoms and ill-defined conditions . 780-796							
55 All other diseases Residual	45	25	20	19	12	6	8
56 Accidents E800-E949	38	22	16	16	10	6	6
57 Motor vehicle accidents E810-E823	21	13	8	10	5	3	3
58 Home accidents (Home) E850-E949	10	5	5	3	3	2	2
59 All other accidents E800-E807, E825-E849 (Other) E850-E949	7	4	3	3	2	1	1
60 Suicide E950-E959	6	5	1	4		1	1
61 Homicide E960-E978	5	4	1	1		3	1
62 Other external causes E980-E999	1	1		1			

TABLE 45 - MARRIAGES BY PLACE OF MARRIAGE, RESIDENCE OF BRIDE, AND RESIDENCE OF GROOM
BY RACE, BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1978

Planning District/ City or County	PLACE OF MARRIAGE			RESIDENCE OF BRIDE			RESIDENCE OF GROOM		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	58,967	50,187	8,780	58,967	50,369	8,598	58,967	50,187	8,780
District 1	2,442	2,406	36	898	888	10	916	904	12
Lee	461	459	2	210	209	1	202	201	1
Scott	446	441	5	195	195		176	175	1
Wise	1,461	1,436	25	488	480	8	535	525	10
Norton	74	70	4	5	4	1	3	3	
District 2	5,040	4,958	82	1,521	1,494	27	1,460	1,438	22
Buchanan	906	903	3	347	347		372	372	
Dickenson	2,815	2,803	12	297	294	3	224	224	
Russell	588	575	13	408	396	12	396	386	10
Tazewell	731	677	54	469	457	12	468	456	12
District 3	1,973	1,935	38	1,493	1,466	27	1,403	1,377	26
Bland	70	70		37	37		45	44	1
Carroll	241	239	2	214	213	1	196	195	1
Grayson	135	132	3	134	134		131	129	2
Smyth	315	312	3	310	308	2	291	288	3
Washington	481	469	12	421	413	8	393	384	9
Wythe	289	281	8	213	205	8	205	200	5
Bristol	366	356	10	146	139	7	124	119	5
Galax	76	76		18	17	1	18	18	
District 4	2,984	2,906	78	1,192	1,160	32	1,204	1,167	37
Floyd	97	96	1	87	86	1	82	80	2
Giles	1,930	1,886	44	163	160	3	150	149	1
Montgomery	509	498	11	513	503	10	549	534	15
Pulaski	326	313	13	319	309	10	330	316	14
Radford	122	113	9	110	102	8	93	88	5
District 5	2,707	2,471	236	2,253	2,040	213	2,150	1,931	219
Alleghany	280	277	3	109	106	3	119	114	5
Botetourt	157	153	4	176	170	6	172	163	9
Craig	35	35		36	35	1	35	35	
Roanoke	303	294	9	549	536	13	470	454	16
Clifton Forge	127	117	10	39	36	3	30	24	6
Covington	271	252	19	83	75	8	64	77	7
Roanoke City	1,308	1,124	184	1,048	876	172	1,019	849	170
Salem	226	219	7	213	206	7	221	215	6
District 6	1,958	1,872	86	1,716	1,642	74	1,663	1,586	77
Augusta	356	342	14	443	428	15	441	425	16
Bath	125	123	2	46	42	4	47	41	6
Highland	40	40		23	23		22	22	
Rockbridge	116	113	3	144	135	9	143	136	7
Rockingham	432	424	8	600	588	12	593	580	13
Buena Vista	80	79	1	66	65	1	61	60	1
Harrisonburg	241	232	9	8	7	1	13	13	
Lexington	94	81	13	49	46	3	50	47	3
Straunton	285	261	24	188	165	23	165	142	23
Waynesboro	189	177	12	149	143	6	128	120	8
District 7	3,540	3,426	114	1,136	1,112	24	1,104	1,071	33
Clarke	89	73	16	65	56	9	79	72	7
Frederick	538	526	12	263	263		271	266	5
Page	168	165	3	161	160	1	160	159	1
Shenandoah	289	286	3	251	248	3	237	235	2
Warren	239	230	9	203	198	5	192	185	7
Winchester	2,217	2,146	71	193	187	6	165	154	11
District 8	10,524	9,166	1,358	8,559	7,796	763	8,068	7,281	787
Arlington	2,457	1,941	516	1,413	1,224	189	1,391	1,201	190
Fairfax	2,929	2,768	161	4,297	4,045	252	3,879	3,621	258
Loudoun	456	432	24	390	372	18	360	340	20
Prince William	924	866	58	1,189	1,119	70	1,170	1,081	89
Alexandria	1,971	1,492	479	1,050	831	219	1,044	828	216
Fairfax City	1,062	978	84	135	129	6	135	127	8
Falls Church	330	316	14	39	33	6	38	37	1
Manassas	386	364	22	31	28	3	39	34	5
Manassas Park	9	9		15	15		12	12	
District 9	797	667	130	722	611	111	694	585	109
Culpeper	207	166	41	188	161	27	186	150	36
Fauquier	292	248	44	249	213	36	247	216	31
Madison	93	84	9	74	60	14	64	53	11
Orange	154	122	32	161	132	29	150	123	27
Rappahannock	51	47	4	50	45	5	47	43	4
District 10	1,265	1,093	172	1,210	1,039	171	1,212	1,031	181
Albemarle	329	303	26	500	454	46	462	419	43
Fluvanna	70	41	29	79	50	29	75	48	27
Greene	57	55	2	63	60	3	70	65	5
Louisa	127	96	31	128	100	28	145	109	36
Nelson	111	99	12	90	73	17	104	85	19
Charlottesville	571	499	72	350	302	48	356	305	51
District 11	1,613	1,364	249	1,567	1,327	240	1,495	1,264	231
Amherst	227	186	41	237	201	36	222	189	33
Appomattox	102	80	22	88	66	22	96	77	19
Bedford	206	189	17	239	215	24	223	199	24
Campbell	248	215	33	366	320	46	328	292	36
Bedford City	89	74	15	52	42	10	49	38	11
Lynchburg	741	620	121	585	483	102	577	469	108

Refers to the race of the groom.

(continued)

TABLE 45 - MARRIAGES BY PLACE OF MARRIAGE, RESIDENCE OF BRIDE, AND RESIDENCE OF GROOM
BY RACE, BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1978 (continued)

Planning District/ City or County	PLACE OF MARRIAGE			RESIDENCE OF BRIDE			RESIDENCE OF GROOM		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	58,967	50,187	8,780	58,967	50,369	8,598	58,967	50,187	8,780
District 12	2,165	1,704	461	1,962	1,549	413	1,844	1,466	378
Franklin	227	195	32	223	189	34	217	197	20
Henry	453	400	53	530	447	83	494	419	75
Patrick	150	137	13	121	111	10	112	102	10
Pittsylvania	500	358	142	509	361	148	482	353	129
Danville	558	414	144	414	318	96	377	279	98
Martinsville	277	200	77	165	123	42	162	116	46
District 13	702	404	298	621	354	267	596	346	250
Brunswick	125	62	63	108	55	53	102	51	51
Halifax	265	161	104	307	170	137	299	167	132
Mecklenburg	241	149	92	202	126	76	185	120	65
South Boston	71	32	39	4	3	1	10	8	2
District 14	720	460	260	654	424	230	630	402	228
Amelia	91	67	24	83	61	22	64	49	15
Buckingham	77	48	29	75	46	29	79	51	28
Charlotte	93	64	29	90	64	26	98	64	34
Cumberland	53	35	18	48	28	20	41	23	18
Lunenburg	98	54	44	103	60	43	99	58	41
Nottoway	144	101	43	119	84	35	115	78	37
Prince Edward	164	91	73	136	81	55	134	79	55
District 15	5,489	4,136	1,353	5,700	4,360	1,340	5,487	4,152	1,335
Charles City Co.	38	12	26	43	12	31	36	11	25
Chesterfield	673	636	37	1,141	1,070	71	1,007	939	68
Goochland	106	68	38	81	50	31	90	52	38
Hanover	397	330	67	381	329	52	370	317	53
Henrico	807	770	37	1,687	1,533	154	1,496	1,342	154
New Kent	72	56	16	71	51	20	71	51	20
Powhatan	103	86	17	84	74	10	95	84	11
Richmond City	3,293	2,178	1,115	2,212	1,241	971	2,322	1,356	966
District 16	904	782	122	847	734	113	806	705	101
Caroline	106	64	42	122	73	49	127	66	61
King George	70	61	9	71	64	7	63	58	5
Spotsylvania	185	164	21	232	211	21	211	190	21
Stafford	275	251	24	280	264	16	263	250	13
Fredericksburg	268	242	26	142	122	20	142	121	21
District 17	282	200	82	254	183	71	271	192	79
Lancaster	70	50	20	66	47	19	73	52	21
Northumberland	77	52	25	61	43	18	65	46	19
Richmond	52	41	11	53	42	11	63	47	16
Westmoreland	83	57	26	74	51	23	70	47	23
District 18	418	333	85	408	328	80	396	314	82
Essex	61	39	22	60	38	22	60	39	21
Gloucester	145	130	15	143	130	13	140	125	15
King and Queen	42	26	16	41	29	12	40	26	14
King William	59	45	14	55	41	14	63	43	20
Mathews	58	48	10	61	51	10	47	41	6
Middlesex	53	45	8	48	39	9	46	40	6
District 19	1,995	1,301	694	1,393	943	450	1,304	875	429
Dinwiddie	132	79	53	153	96	57	157	104	53
Greensville	35	21	14	88	43	45	78	35	43
Prince George	253	201	52	132	104	28	143	103	40
Surry	26	12	14	32	13	19	37	15	22
Sussex	83	43	40	79	34	45	76	37	39
Colonial Heights	286	279	7	186	184	2	162	161	1
Emporia	414	191	223	40	24	16	37	25	12
Hopewell	197	173	24	256	229	27	234	207	27
Petersburg	569	302	267	427	216	211	380	188	192
District 20	2,641	2,762	1,879	2,146	2,386	1,760	6,620	4,976	1,644
Isle of Wight	157	111	46	147	95	52	142	101	41
Southampton	120	72	48	143	70	73	139	71	68
Chesapeake	613	474	139	886	699	187	797	617	180
Franklin	68	26	42	15	5	10	17	9	8
Norfolk	2,932	2,063	869	2,390	1,639	751	2,343	1,613	730
Portsmouth	1,029	648	381	854	513	341	783	490	293
Suffolk	345	180	165	336	183	153	298	160	138
Virginia Beach	2,377	2,188	189	2,375	2,182	193	2,101	1,915	186
District 21	3,408	2,581	827	3,086	2,314	772	3,023	2,229	794
James City Co.	93	64	29	165	119	46	163	116	47
York	197	165	32	234	208	26	215	187	28
Hampton	1,016	758	258	1,146	815	331	1,052	751	301
Newport News	1,671	1,204	467	1,399	1,055	344	1,470	1,066	404
Poquoson	38	38		26	26		19	19	
Williamsburg	393	352	41	116	91	25	104	90	14
District 22	319	197	122	278	169	109	260	155	105
Accomack	191	141	50	161	116	45	162	108	54
Northampton	128	56	72	117	53	64	98	47	51
Unknown Virginia	66	53	13	6	6		1	1	
Out-of-State	15	10	5	14,345	13,044	1,301	16,360	14,739	1,621

Refers to the race of the groom.

TABLE 46
MARRIAGES BY TYPE OF CEREMONY BY MONTH
VIRGINIA, 1978

Month	Total	Type of Ceremony		
		Religious	Civil	Unknown
TOTAL	58,967	44,693	14,263	11
January	2,770	1,952	816	2
February	3,176	2,178	998	
March	3,981	2,857	1,124	
April	4,623	3,508	1,115	
May	5,042	3,922	1,120	
June	7,000	5,572	1,428	
July	6,264	4,913	1,350	1
August	6,041	4,687	1,354	
September	5,695	4,376	1,318	1
October	4,637	3,496	1,139	2
November	4,504	3,396	1,103	5
December	5,234	3,836	1,398	

TABLE 47
MARRIAGES BY PREVIOUS MARITAL STATUS OF BRIDE BY PREVIOUS MARITAL STATUS OF GROOM
ACCORDING TO RACE OF GROOM, VIRGINIA, 1978

Previous Marital Status of Groom	Total	Previous Marital Status of Bride				
		Single	Widowed	Divorced	Annulled	Unknown
TOTAL	58,967	38,381	2,687	17,852	11	36
Single	37,689	31,415	474	5,776	5	19
Widowed	2,255	307	1,019	927		2
Divorced	18,994	6,649	1,193	11,136	5	11
Annulled	5	2		2	1	
Unknown	24	8	1	11		4
White (Total)	50,187	31,690	2,331	16,123	11	32
Single	31,174	25,792	363	4,999	5	15
Widowed	1,916	211	906	797		2
Divorced	17,072	5,678	1,061	10,317	5	11
Annulled	5	2		2	1	
Unknown	20	7	1	8		4
Nonwhite (Total)	8,780	6,691	356	1,729		4
Single	6,515	5,623	111	777		4
Widowed	339	96	113	130		
Divorced	1,922	971	132	819		
Annulled						
Unknown	4	1		3		

TABLE 48 - MARRIAGES BY AGE OF BRIDE BY AGE OF GROOM, VIRGINIA, 1978

AGE OF GROOM (in years)	Total	AGE OF BRIDE (in years)																											75 +		
		Under 15	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	40	45	50	55	60		65	70
Under 15	58,967	93	255	2,126	2,577	5,692	4,887	4,571	4,335	4,150	3,511	3,041	2,638	2,147	1,877	1,665	1,544	1,440	1,255	926	851	832	2,982	1,948	1,277	502	618	412	246	123	46
15	8	1	12	5	36	25	12	4	2	1		2	1		1		1														
16	182	12	70	212	147	25	12	17	12	6	3		3	2																	
17	647	11	30	212	147	149	52	34	17	6	3	16	15	3	3	5	3	2	1	1	1	3	4	2	1	44	49	54	64	59	74
18	2,474	17	67	478	456	792	341	142	62	34	26	16	15	3	3	5	6	7	10	8	5	2	4	2							
19	3,509	21	54	429	502	1,028	686	325	179	82	58	27	31	18	19	6	6	7	10	8	5	2	4	2							
20	4,079	11	33	307	430	1,018	824	598	333	179	96	55	57	33	21	9	17	20	10	5	6	5	7	5							
21	4,392	4	23	200	330	803	740	754	604	351	166	126	72	53	42	31	21	16	9	10	10	9	7								
22	4,440	4	11	111	217	565	657	652	695	651	311	163	116	83	50	36	35	19	14	8	12	11	15	3							
23	4,046	4	4	101	152	399	396	538	561	583	496	294	150	110	59	45	40	35	23	10	7	6	24	6	1						
24	3,667	1	9	59	83	252	313	382	433	505	536	378	214	133	97	72	58	40	32	25	8	6	23	5	2	1					
25	3,250	1	2	36	67	183	232	274	342	397	362	386	314	169	126	78	75	60	35	23	16	15	38	14	4	1					
26	2,767	2	2	34	44	130	146	207	259	300	291	297	271	180	150	112	90	76	55	28	29	18	33	12	2	1					
27	2,475	1	3	21	28	103	125	160	186	233	224	250	247	201	185	123	91	76	51	32	32	34	49	16	4						
28	2,141	1	1	18	14	65	78	121	153	175	174	242	201	181	163	154	98	79	53	31	27	23	64	20	4	1					
29	1,858	1	7	17	17	44	69	81	107	140	149	147	175	164	169	136	112	81	58	50	32	25	68	16	8	2					
30	1,777		7	9	30	44	44	76	91	130	124	132	133	134	142	151	115	112	83	49	40	42	101	23	8	1					
31	1,735		5	11	19	46	56	56	83	104	112	110	147	138	135	103	138	131	108	61	53	40	93	31	9	1					
32	1,213	1	1	2	7	21	23	34	47	45	71	70	91	96	81	84	67	81	79	72	54	43	84	27	9	3					
33	1,055		1	5	6	8	16	27	28	43	64	64	65	71	75	84	63	81	72	48	49	43	102	32	4	4					
34	1,071		5	3	13	12	12	29	33	30	51	74	59	71	57	62	80	70	76	47	51	53	146	38	10	1					
35-39	3,935	1	7	11	29	43	68	82	108	130	130	130	186	192	159	218	240	239	248	218	201	204	779	290	97	33	8	3	1		
40-44	2,542	2	5	5	10	15	16	27	30	44	49	53	72	80	93	108	120	126	118	111	122	610	460	186	64	14	1	1			
45-49	1,886																														
50-54	1,417																														
55-59	988	1		2	1	1	4	4	3	5	11	3	9	7	8	15	19	26	32	24	33	27	212	288	304	246	99	25	12	2	
60-64	610																														
65-69	314																														
70-74	263																														
75+	177																														

TABLE 49 - DIVORCES (INCLUDING ANNULMENTS) BY RACE OF HUSBAND AND CAUSE OF DIVORCE
BY PLANNING DISTRICT AND CITY OR COUNTY WHERE GRANTED, VIRGINIA, 1978

Planning District/ City or County	ALL DIVORCES (Including Annulments)			CAUSE OF DIVORCE					
	Total	White	Nonwhite	Separation	Desertion	Adultery	Imprison- ment	Other & Unknown	Annul- ments
STATE OF VIRGINIA	22,654	19,182	3,472	17,585	3,999	412	97	457	104
District 1	324	320	4	152	151	10	1	6	4
Lee	96	96		59	33	2	1	1	
Scott	45	45		25	18	2			
Wise	183	179	4	68	100	6		5	4
Norton	(Included with Wise County)								
District 2	412	408	4	241	145	11	2	9	4
Buchanan	115	115		69	35	5	1	3	2
Dickenson	69	69		44	23			1	1
Russell	79	78	1	43	31	3		1	1
Tazewell	149	146	3	85	56	3	1	4	
District 3	706	693	13	466	197	14	1	23	5
Bland	8	8		6	2				
Carroll	140	136	4	77	51	1		9	2
Grayson	79	77	2	44	29	3		2	1
Smth	157	156	1	115	33	5		3	1
Washington	154	153	1	110	41	1		1	1
Wythe	99	96	3	80	14	2	1	2	
Bristol	69	67	2	34	27	2		6	
Galax	(Included with Carroll & Grayson Cos.)								
District 4	565	541	24	468	69	10	3	13	2
Floyd	21	21		15	3	1	1	1	
Giles	55	54	1	44	8	1		2	
Montgomery	263	253	10	214	26	4	1	6	2
Pulaski	171	163	8	145	19	4	1	2	
Radford	55	50	5	50	3			2	
District 5	1,202	1,090	112	698	374	31	12	79	5
Alleghany	85	80	5	59	17	5		4	
Botetourt	79	76	3	59	16	1		2	1
Craig	20	20		8	8	1		3	
Roanoke	348	346	2	186	123	12	3	20	4
Clifton Forge	16	14	2	9	6			1	
Covington	(Included with Alleghany County)								
Roanoke City	524	429	95	298	167	11	7	40	1
Salem	130	125	5	79	37	1	2	9	2
District 6	793	767	26	619	131	21	4	14	1
Augusta	192	187	5	135	50	2	1	3	1
Bath	23	21	2	16	5			2	
Highland	7	7		2	3	1		1	
Rockbridge	79	77	2	51	20	4	2	2	
Rockingham	277	274	3	249	12	11		3	2
Buena Vista	38	37	1	27	11				
Harrisonburg	(Included with Rockingham County)								
Lexington	(Included with Rockbridge County)								
Staunton	105	97	8	84	15	3	1	1	1
Waynesboro	72	67	5	55	15			2	
District 7	558	535	23	466	72	8	4	8	
Clarke	32	29	3	25	6	1			
Frederick	134	129	5	112	18	2		2	
Page	71	70	1	52	10	4	1	4	
Shenandoah	102	101	1	84	18				
Warren	102	96	6	88	12		2		
Winchester	117	110	7	105	8	1	1	2	
District 8	4,762	4,344	418	4,222	370	54	4	43	19
Arlington	660	579	81	602	43	7	1	4	3
Fairfax	2,686	2,534	152	2,418	210	26	2	18	12
Loudoun	206	192	14	185	11	6		2	1
Prince William	601	563	38	532	54	8		5	2
Alexandria	609	476	133	535	52	7		14	1
Fairfax City	(Included with Fairfax County)								
Falls Church	(Included with Fairfax County)								
Manassas	(Included with Prince William Co.)								
Manassas Park	(Included with Prince William Co.)								
District 9	304	272	32	230	48	8	5	12	1
Culpeper	76	67	9	51	16	3	3	3	
Fauquier	105	92	13	93	7	3		1	
Madison	36	34	2	21	10	1	1	2	1
Orange	67	60	7	48	12	1		6	
Rappahannock	20	19	1	17	3				
District 10	568	493	75	499	45	15	1	7	1
Albemarle	200	187	13	174	18	6		2	
Fluvanna	32	24	8	29	3				
Greene	19	17	2	16	3				
Louisa	65	54	11	50	10	1		3	1
Nelson	31	25	6	31					
Charlottesville	221	186	35	199	11	8	1	2	
District 11	758	658	100	602	97	37	4	15	2
Amherst	91	84	7	78	6	5		2	
Appomattox	36	24	12	25	7			4	
Bedford	118	108	10	84	22	4	3	3	2
Campbell	199	194	5	163	21	12	1	2	
Bedford City	(Included with Bedford County)								
Lynchburg	314	248	66	252	41	16		4	1

TABLE 49 - DIVORCES (INCLUDING ANNULMENTS) BY RACE OF HUSBAND AND CAUSE OF DIVORCE
BY PLANNING DISTRICT AND CITY OR COUNTY WHERE GRANTED, VIRGINIA, 1978

Planning District/ City or County	ALL DIVORCES (Including Annulments)			CAUSE OF DIVORCE					
	Total	White	Nonwhite	Separation	Desertion	Adultery	Imprison- ment	Other & Unknown	Annul- ments
STATE OF VIRGINIA	22,654	19,182	3,472	17,585	3,999	412	97	457	104
District 12	754	623	131	554	165	2	2	20	1
Franklin	10	4	6	9	1				
Henry	229	198	31	164	57		3	5	
Patrick	52	49	3	44	8				
Pittsylvania	178	143	35	131	38	3	3	3	
Danville	208	172	36	158	36	3	1	9	1
Martinsville	77	57	20	48	25	1		3	
District 13	223	146	77	170	52		1		
Brunswick	31	13	18	28	3				
Halifax	109	68	41	77	32				
Mecklenburg	83	65	18	65	17		1		
South Boston	(Included with Halifax County)								
District 14	247	160	87	187	48	5	1	6	
Amelia	25	18	7	13	8	2		2	
Buckingham	27	20	7	17	6		1	3	
Charlotte	35	11	24	23	11	1			
Cumberland	23	17	6	21	2				
Lunenburg	34	23	11	27	7				
Nottoway	45	32	13	40	3	1		1	
Prince Edward	58	39	19	46	11				
District 15	3,203	2,490	713	2,318	705	48	19	105	8
Charles City Co.	21	11	10	17	2			2	
Chesterfield	633	603	30	415	171	18	6	22	1
Goochland	38	28	10	27	8			2	
Hanover	205	178	27	155	40	4	1	4	1
Henrico	1,006	913	93	699	241	12	4	48	2
New Kent	36	25	11	25	9	1		1	
Powhatan	30	22	8	23	5			2	
Richmond City	1,234	710	524	957	229	13	8	24	3
District 16	515	448	67	429	61	10	2	11	2
Caroline	80	56	24	61	11	2		6	
King George	41	36	5	30	11				
Spotsylvania	131	121	10	110	16	3		1	1
Stafford	152	145	7	128	18	3		3	
Fredericksburg	111	90	21	100	5	2	2	1	1
District 17	152	103	49	127	20		1	2	1
Lancaster	40	29	11	37	3				
Northumberland	37	27	10	27	8			2	
Richmond	25	18	7	19	6				
Westmoreland	50	29	21	44	3		1	1	1
District 18	214	175	39	180	22	5	2	4	1
Essex	27	21	6	20	5	1		1	
Gloucester	73	67	6	65	4		1	2	
King and Queen	21	11	10	17	1	2		1	
King William	26	20	6	21	3		1		1
Mathews	37	30	7	33	4				
Middlesex	30	26	4	24	5	1			
District 19	714	500	214	507	162	21	4	17	3
Dinwiddie	50	39	11	35	13	1		1	
Greensville	68	44	24	55	11		1	1	
Prince George	105	81	24	76	21	3	1	4	
Surry	16	7	9	12	4				
Sussex	35	18	17	30	5				
Colonial Heights	94	94		59	25	6		3	1
Emporia	(Included with Greensville County)								
Hopewell	125	114	15	76	41	5	2	5	
Petersburg	217	103	114	164	42	6		3	2
District 20	3,828	3,016	812	2,847	842	60	14	27	28
Isle of Wight	63	47	16	45	15		1	2	
Southampton	76	46	30	69	5	1		1	
Chesapeake	528	430	98	367	143	2	2	8	6
Franklin City	(Included with Southampton County)								
Norfolk	1,247	888	359	975	233	16	4	10	9
Portsmouth	489	331	158	352	124	7	2	1	3
Suffolk	151	77	74	122	20	3	3	3	
Virginia Beach	1,274	1,197	77	917	302	31	2	12	10
District 21	1,734	1,321	413	1,451	209	37	5	23	9
James City Co.	84	65	19	64	17	2		1	
York	129	115	14	105	20	2			1
Hampton	551	409	142	467	58	14	2	8	2
Newport News	929	701	228	783	107	19	3	12	5
Poquoson	(Included with York County)								
Williamsburg	41	31	10	32	7			1	1
District 22	118	79	39	102	14			2	
Accomack	87	60	27	75	11			1	
Northampton	31	19	12	27	3			1	

TABLE 50 - DIVORCES (INCLUDING ANNULMENTS) BY DURATION OF MARRIAGE AND PERSON GRANTED DIVORCE
BY PLAINTIFF AND CAUSE OF DIVORCE, VIRGINIA, 1978

Cause	PLAINTIFF	TOTAL	DURATION OF MARRIAGE IN YEARS																GRANTED TO				
			Under 1 year	1	2	3	4	5	6	7	8	9	10- 14	15- 19	20- 24	25- 29	30- 34	35- 39	40+	Unk.	Husband	Wife	Other & Unknown
ALL CAUSES	Total	22,654	74	919	1,606	1,942	1,926	1,859	1,685	1,421	1,241	1,164	3,708	2,140	1,432	812	446	180	90	2	8,650	13,884	120
	Husband	8,548	30	358	596	691	718	671	627	522	451	425	1,379	797	597	344	206	83	48	5	8,079	417	52
	Wife	14,097	43	561	1,008	1,250	1,208	1,188	1,057	899	790	739	2,328	1,342	833	468	240	97	42	4	568	13,462	67
Separation for more than one year	Total	17,585	8	557	1,159	1,462	1,547	1,460	1,341	1,111	1,011	933	2,957	1,685	1,129	646	352	146	74	7	6,942	10,552	91
	Husband	6,864	4	221	421	509	571	526	500	427	379	356	1,163	672	507	303	183	76	41	5	6,539	289	36
	Wife	10,713	3	336	736	952	976	934	840	684	632	577	1,793	1,012	621	343	169	70	33	2	400	10,259	54
Desertion	Total	3,999	3	269	358	384	320	309	274	250	172	189	594	375	244	132	83	27	15	1	1,413	2,566	20
	Husband	1,406	3	112	148	158	133	124	107	76	58	56	174	108	78	35	23	6	7	1	1,286	108	12
	Wife	2,592	1	157	210	226	187	185	167	174	114	133	420	267	165	97	60	21	8	1	127	2,457	8
Adultery, Sodomy	Total	412	17	26	32	29	22	32	33	25	25	19	75	34	27	11	5				210	200	2
	Husband	192	11	10	19	18	12	17	15	13	12	11	31	12	8	3					184	8	
	Wife	220	6	16	13	11	10	15	18	12	13	8	44	22	19	8	5				26	192	2
Imprisonment	Total	97		14	13	12	2	12	6	7	5	2	11	2	1	2					3	94	
	Husband	5		1	2																3	2	
	Wife	92		13	11	12	9	12	5	7	5	2	11	1	1	3						92	
Cruelty	Total	442		28	36	46	27	38	25	23	27	18	70	43	26	20	6	7	1	1	49	391	2
	Husband	144		4	3	4	2	1	2	2	2	1	11	4	4	3		1			36	8	
	Wife	398		24	33	42	25	37	23	21	25	17	59	39	22	17	6	6	1	1	13	383	2
Other and Unknown	Total	15			1	1		2	2	3		1	1	1	4						4	11	
	Husband	4						1	1	1			1								4		
	Wife	11			1	1		1	1													11	
Annulments	Total	104	46	25	7	8	1	6	4	2	1	3			1						29	70	5
	Husband	33	12	10	3	2	1	2	1	1	1	2									27	2	4
	Wife	71	34	15	4	6		4	3						1						2	68	1

TABLE 51 - DIVORCES (INCLUDING ANNULMENTS) BY AGE OF WIFE BY AGE OF HUSBAND, VIRGINIA, 1978

Age of Husband (in years)	Total	AGE OF WIFE (in years)																				75 and over	Unk.									
		Under 15	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33			34	35	40	45	50	55	60	65	70
Under 15	22,654	1																														
15		1																														
16	25	1	1	2	1	6	5	5			2																					
17	60		4	3	10	16	10	8	4																							
18	198		2	8	28	58	48	25	11	3																						
19	366		2	11	23	56	83	90	43	25	12	3																				
20	520		1	6	18	64	86	116	105	62	25	7																				
21	773			4	21	31	89	153	157	149	69																					
22																																
23	907																															
24	1,080																															
25	1,076																															
26	1,161																															
27	1,180																															
28																																
29	1,088																															
30	1,188																															
31	827																															
32	845																															
33																																
34	870																															
35-39	3,172																															
40-44	2,203																															
45-49	1,585																															
50-54	1,032																															
55-59	577																															
60-64	301																															
65-69	138																															
70-75	63																															
75 & over	43																															
Unknown	187																															

TABLE 52
DIVORCES (INCLUDING ANNULMENTS) BY RACE BY MONTH OF DECREE
VIRGINIA, 1978

Month	Total	Final Divorces		Annulments	
		White	Nonwhite	White	Nonwhite
TOTAL	22,654	19,089	3,461	93	11
January	1,455	1,240	210	5	
February	1,454	1,231	215	7	1
March	1,967	1,675	283	9	
April	1,851	1,572	269	10	
May	2,018	1,696	311	10	1
June	2,077	1,740	322	14	1
July	1,880	1,577	294	7	2
August	2,079	1,737	336	5	1
September	1,873	1,562	300	6	5
October	2,030	1,717	302	11	
November	1,886	1,578	303	5	
December	2,084	1,764	316	4	

TABLE 53
DIVORCES (INCLUDING ANNULMENTS) BY RACE OF HUSBAND BY PLACE OF MARRIAGE
AND NUMBER OF MINOR CHILDREN IN FAMILY, VIRGINIA, 1978

Place of Marriage/Minor Children	Total	White	Nonwhite
ALL DIVORCES AND ANNULMENTS	22,654	19,182	3,472
By place of marriage:			
State of Virginia	13,791	11,261	2,530
Outside of Virginia	8,861	7,919	942
Unknown	2	2	
By number of minor children in family:			
No children	9,800	8,526	1,274
1 child	6,211	5,179	1,032
2 children	4,143	3,477	666
3 children	1,437	1,162	275
4 children	409	301	108
5 children	117	73	44
6 children	31	11	20
7 children	8	3	5
8 children	2	1	1
9 children	4	3	1
10 children or more	-	-	-
Unknown	492	446	46

TABLE 54 - WEAPON INFLECTED INJURY REPORTS BY SOURCE OF REPORT, PLACE OF INJURY AND RESIDENCE OF VICTIM BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1978

Planning District/ City or County	Source of Report	Place of Injury	Residence of Victim	Planning District/ City or County	Source of Report	Place of Injury	Residence of Victim
STATE OF VIRGINIA	1,944	1,944	1,944				
<u>District 1</u>	37	28	29	<u>District 12</u>	139	121	122
Lee	12	11	11	Franklin	7	7	5
Scott		1	1	Henry	45	38	26
Wise	25	16	17	Patrick	9	7	8
Norton				Pittsylvania	2	20	13
<u>District 2</u>	22	27	32	Danville	42	17	21
Buchanan	2	4	6	Martinsville	34	22	49
Dickenson		7	7	<u>District 13</u>	67	63	69
Russell			1	Brunswick	7	12	12
Tazewell	20	16	18	Halifax	30	16	14
<u>District 3</u>	24	24	22	Mecklenburg	22	27	27
Bland				South Boston	8	8	16
Carroll		1		<u>District 14</u>	20	23	25
Grayson		1	1	Amelia			2
Smyth	8	9	6	Buckingham	1	7	7
Washington	4	4	4	Charlotte	1	6	4
Wythe	9	8	9	Cumberland		5	5
Bristol				Lunenburg	4	4	5
Galax	3	1	2	Nottoway		7	6
<u>District 4</u>	41	37	42	Prince Edward	14	4	6
Floyd	3	2	3	<u>District 15</u>	188	153	164
Giles	12	11	10	Charles City Co.		1	2
Montgomery	3	2	3	Chesterfield	4	20	8
Pulaski	18	18	17	Goochland	1	1	2
Radford	5	4	9	Hanover			11
<u>District 5</u>	74	69	70	Henrico	8	7	4
Alleghany	9	10	3	New Kent			
Botetourt	1	1	2	Powhatan			
Craig		1		Richmond City	175	123	157
Roanoke	14	7	4	<u>District 16</u>	54	42	46
Clifton Forge	2	1	1	Caroline		14	14
Covington			6	King George		3	3
Roanoke City	45	48	50	Spotsylvania		6	3
Salem	3	1	4	Stafford		7	7
<u>District 6</u>	60	55	48	Fredericksburg	54	12	19
Augusta	8	8	1	<u>District 17</u>	29	19	15
Bath	3	3	1	Lancaster	6	6	5
Highland				Northumberland			
Rockbridge			1	Richmond			
Rockingham	22	18	13	Westmoreland	3	13	10
Buena Vista	2	2	2	<u>District 18</u>	9	3	6
Harrisonburg	9	7	12	Essex	7	1	1
Lexington				Gloucester			
Straunton	6	7	7	King and Queen	1	1	2
Waynesboro	10	10	11	King William	1	1	2
<u>District 7</u>	42	39	38	Mathews			
Clarke	1	1	1	Middlesex			1
Frederick	3	3		<u>District 19</u>	148	135	136
Page	14	13	12	Dinwiddie		15	12
Shenandoah	7	7	6	Greensville	10	13	
Warren	12	12	12	Prince George	2	10	6
Winchester	5	3	7	Surry		2	2
<u>District 8</u>	115	100	103	Sussex	6	5	8
Arlington	1	1	2	Colonial Heights		1	2
Fairfax	4	10	6	Emporia	18	9	19
Loudoun	6	6	7	Hopewell	31	22	27
Prince William	25	24	11	Petersburg	81	58	60
Alexandria	61	46	52	<u>District 20</u>	666	598	632
Fairfax City	15	11	9	Isle of Wight		6	9
Falls Church	1	1	6	Southampton	3	4	6
Manassas	2	1	10	Chesapeake	70	75	83
Manassas Park				Franklin City	5	5	4
<u>District 9</u>	35	43	51	Norfolk	351	307	311
Culpeper	15	18	18	Portsmouth	137	127	128
Fauquier	18	15	18	Suffolk	48	31	33
Madison	2	5	5	Virginia Beach	52	43	58
Orange		4	7	<u>District 21</u>	65	62	66
Rappahannock	1	1	3	James City Co.	17	15	9
<u>District 10</u>	64	41	44	York	7	7	1
Albemarle	63	16	15	Hampton	16	10	13
Fluvanna		3	2	Newport News	18	21	22
Greene		5	5	Poquoson			
Louisa		9	8	Williamsburg	7	9	21
Nelson		2	4	<u>District 22</u>			
Charlottesville	1	6	10	Accomack			
<u>District 11</u>	65	64	64	Northampton			
Amherst	7	11	12	Out-of-State		24	69
Appomattox		1	2	Unknown		164	21
Bedford	10	13	10				
Campbell	5	10	11				
Bedford City	5	8	8				
Lynchburg	38	21	21				

VIRGINIA STATE HEALTH DEPARTMENT

DIVISION REPORTS

ADMINISTRATION AND STAFF SERVICES

General administrative and support services are provided for all agency programs by this Division through the Bureaus of Data Processing, Accounting and Budgeting Services, Personnel, Purchasing and General Services, Staff Development, Health Education and Information, and Internal Audit.

HEALTH EDUCATION AND INFORMATION

The Bureau of Health Education and Information assists in the planning, development and organization of programs that are designed to improve individual and community health. Through various publications and the media, it keeps the citizens of the State informed about the availability of health services and of the general activities of the Health Department.

During 1979, Bureau personnel continued to provide staff assistance to thirty-three committees responsible for the development of health education programs. In cooperation with the Health Education Advisory Committee, a Statewide conference was held in Williamsburg emphasizing health education through group action.

The Health Education staff continued to work in local areas on specific health education projects. In conjunction with the public health nursing staff, an eight-week health education program for prenatal patients was developed in Hanover county. This project demonstrated that a health education class can be scheduled as part of the clinic routine. Because of its success, this activity is being continued as an on-going program. A pilot-study involving the administration of a Health Hazard Appraisal Instrument and including three different health education classes has been planned for implementation in the Norfolk Health Department in October 1979.

An assessment of health education needs was conducted in Abingdon and, subsequently, a program was implemented which involved a publicity campaign by the Bureau to make home health care services more widely known in the Mount Rogers Health District. Extensive media coverage was utilized with the cooperation of newspapers and television stations in an area extending from Bristol to Roanoke. In addition, a slide presentation, developed in cooperation with Virginia Highlands Community College, was given extensive viewing throughout the District.

The Bureau conducted an evaluation of the health education and information programs of the Richmond City Health Department at the request of the Regional Medical Director and the Richmond City Health Director. At the request of the Director of Nursing of the Alexandria Health Department, assistance was provided to the nursing staff in developing maternal and health education programs for their clinic setting. This consultation is continuing and is addressing teaching methods and skills required to conduct group sessions. Consultation on improved pregnancy outcome was also provided to the nursing staff of the Petersburg Health Department.

An internal advisory committee on health education composed of representatives of the various professions employed by the Virginia Health Department was formed.

The first phase of the Hypertension Health Education Demonstration Project in the Lynchburg Health Department was completed. The purpose of the project is to increase the compliance of patients with prescribed medical regimens.

The Bureau's information section concentrated on providing timely and pertinent information via all media. Sixty news releases were prepared and distributed to over 300 news media in the State. The Bureau also coordinated the appearance of Health Department personnel on television interviews. Over 568,000 copies of pamphlets and other printed health information materials were distributed. The film library responded to over 1,000 requests for movies and filmstrips during the year. Also, the "Virginia Health Bulletin," with a circulation of 15,000, continued to be published quarterly. However, beginning September 1979, the Bulletin will be replaced by a newsletter entitled, "Virginia's Health". Many special projects were handled by the Bureau's information specialists and Bureau personnel arranged press coverage for various Department meetings and activities.

STAFF DEVELOPMENT

The Bureau of Staff Development is responsible for planning, organizing and administering inservice training programs for all employees in the State Department of Health. The training programs include orientation, on-the-job training, and introductory courses for new employees; periodic refresher courses for executive and key administrative personnel; and a graduate degree program. The Bureau maintains close contact with institutions of higher learning, the U.S. Public Health Service, and other agencies concerning technical advancement in the field of public health. Assistance is furnished to program directors in planning for special workshops and seminars, preparing visual aids, using audio-visual equipment, and distributing course announcements.

During the fiscal year 1979, enrollment in Health Department/Bureau of Staff Development sponsored courses totaled 1,946. Forty-six different courses were offered. Several courses were given in one or more sessions; 111 sessions in all were required to accommodate the enrollment. A total of 352 actual days of instruction were provided.

On February 2, 1979, the Commissioner of Health approved the Department of Health's Training Plan for the 1978-80 biennium. The plan authorized 23,000 trainee days of instruction for all employee classifications in Medical Nursing, Sanitation, Social Work, Dental, Clerical and Administrative subjects.

Having satisfactorily completed one year's provisional accreditation, the Continuing Medical Education Committee was notified by the accreditation subcommittee of the Medical Society of Virginia of its intention to recommend to the Commission on CME that the Department of Health be granted the status of accredited sponsor of Category I CME. This will entitle attendees at the Department of Health sponsored CME programs to receive credit toward the Physicians Recognition Award of the Medical Society of Virginia and the American Medical Association.

An advisory committee on Continuing Dental Education was established in July, 1978, and a training needs assessment was conducted. The responses to the assessment constituted the basis for the first Department of Health Continuing Dental Education conference in June, 1979. Subjects presented included Fluorides Used in Dentistry, Medical Emergencies for the Dental Patient, and Effective Use of Institutional Services. Eighty-nine dentists, hygienists and assistants attended.

The practitioners' unique role in the delivery of health services generates a requirement for educational needs apart from those recommended for the other Public Health Nurses. Therefore, in recognition of this, training recommendations designed to meet the needs of the Nurse Practitioners have been included in the Biennium Training Plan. Presentations made at the Practitioners Seminar include, Update on Family Planning, Diagnostic Principles of Congenital Heart Disease, Nonsteroid Management of Arthritis, and a Discussion of Guidelines for Medical Management of Health Problems in Rural Health Clinics.

The training accomplishments discussed above are attributable to the excellent recommendations which emanated from the seven functioning Committees for Continuing Education. Each committee worked with the Bureau of Staff Development to design and provide appropriate training based on the needs of its respective professional discipline, (administration, medicine, nursing, sanitation, social work, clerical, dental). The utilization of the committees in the development of training recommendations has worked very well and to the best interests of the Health Department.

ACCOUNTING AND BUDGETING SERVICES

The Bureau of Accounting and Budgeting Services provides budgeting, accounting and payroll services for all programs of the State Department of Health and the Division of Consolidated Laboratory Services. Coordination is provided for budget preparation and control, and accounting records are maintained for all receipts and disbursements made. During fiscal year 1979, 91,711 payment vouchers representing expenditures of \$412,464,750, and 9,363 certificates of deposit representing \$243,814,584 in revenue were processed and audited. Payroll services were provided for the approximately 4,500 full-time and 600 part-time personnel positions in Health Department and Consolidated Laboratory operations.

In addition to State appropriations, revenues are derived from Federal grants, local commitments, and fees for services and licenses in various Health Department programs. Revenues and expenditures are recorded under the various activities of the Department as shown in Table 55, entitled "Statement of Balances, Appropriations, Receipts and Disbursements for the Year Ending June 30, 1979." Periodic financial reports as required by Federal, State and local agencies are prepared from information maintained by the Bureau of Accounting and Budgeting Services. This information is also used in the preparation of budgets and budget reports to satisfy requirements of Federal, State and local governing bodies.

In order to provide the most efficient and effective budget and financial management, efforts are being made to improve the current budget and accounting systems through full coordination and utilization of the State Department of Planning and Budget's and the State Department of Accounts' systems. Full implementation of the Commonwealth Accounting and Reporting System was initiated on July 1, 1978. This system is designed to provide the necessary financial information to fully implement a program budgeting system for all State operations. Efforts were made during fiscal year 1979 to fully utilize the State Comptroller's automated accounting and financial reporting system (CARS) in lieu of costly internal agency accounting and financial reporting systems. Also during fiscal year 1979, new State budgeting procedures, as developed by the State Department of Planning and Budget, were utilized in preparing the Department of Health biennium budget proposal for 1980-82. This biennium budget proposal exceeded one billion dollars in Health Department program operations for the first time.

PERSONNEL

The Bureau of Personnel serves the Department of Health in the administration of personnel programs involving classification, wage and salary determination, recruitment, grievance handling, equal employment opportunity, performance evaluation, employee relations management, standards of conduct, career and retirement counseling, employee transactions and workmens' compensation.

Each local health department throughout the State is affiliated with the State Department of Health and the Bureau has the responsibility of assisting the local health directors and the directors in the Central Office concerning personnel matters involving the 4,200 positions within the Department.

On a daily basis, the personnel office is involved with individual employee transactions which include appointments, promotions, transfers, retirements, and resignations. Routinely, personnel records are reviewed to award merit salary increases and to process transactions in order to meet payroll deadlines. A complete history is maintained of an employee's career with the Health Department in an individual folder.

Provisions under the Virginia Personnel Act of 1942 and the Joint Merit System Rules are administered by the personnel staff. The Bureau has the responsibility to acquaint, interpret, and advise employees concerning all facets of employment and personnel policy covered under these rules. The Director and his staff provide liaison services between the State Department of Health, the State Merit System Office, and the State Department of Personnel and Training.

During the fiscal year 1979, the Bureau has been preparing to assume greater responsibility in the administration of personnel programs as outlined in House Document Number 11. Most of the year was spent reorganizing the Bureau by rewriting job descriptions and establishing new positions to enable the Bureau to assume its new role for improved responsibilities in employee relations management.

INTERNAL AUDIT

The Bureau of Internal Audit assists management by determining whether the policies and procedures prescribed are properly carried out on a day-to-day basis. The Bureau is responsible for reviewing operations of the Central Office and local health departments and is responsible for internal control of the accounting systems and properly safeguarding the assets of the Commonwealth. Normal procedures for the Bureau include, but are not limited to, auditing, assessments of internal control, financial as well as program compliance, and financial systems studies for top management. Efficient operations and cost reduction recommendations are an important part of the audits completed by this Bureau.

DATA PROCESSING

The Data Processing Center coordinates and provides information processing, storage, and data retrieval services for the Health Department. Typical computerized activities are public health nursing, clinic activities, vital records, toxic substances, medical examiner's system, maternal and child health, crippled children, chronic disease control, cancer registry, manpower and facilities inventories, and environmental programs. The resulting data are used for administration, patient management, and program evaluation. Other areas are being studied for possible computerization, and some of those already computerized are being redesigned for better control, efficiency, and economy.

Consultative service is provided to the staff in the areas of initial identification of needs, design and programming of the applications, design of forms for data collection and reporting, appropriate scheduling, field training, user education, and the required follow-up.

The Bureau also provides the necessary data entry capability utilizing a force of key entry operators. To insure that the results of the information processing procedures are accurate and produced in accordance with the user's specifications, the control section oversees the entire process from receipt of the data to the final output products.

PURCHASING AND GENERAL SERVICES

The Bureau of Purchasing and General Services provides coordination for all the purchasing and supply functions, as well as all other activities of a general services nature, in the Central Office in Richmond and at 196 field locations throughout the Commonwealth. The activities of the four sections of the Bureau (Administration, Purchasing, Central Services, and Biologics and Drugs) include general insurance programs, equipment inventory, property management, real estate leases, contracts, surplus property management, telephone services, purchasing and supply, stockroom operations, mail and messenger services, central records storage, building alterations and repairs, and pharmacy operations.

The Bureau Director serves as liaison for the Department of Health in coordinating activities with the Department of General Services, Divisions of Purchases and Supply, and Engineering and Buildings, and the Virginia Public Telecommunications Council.

The Department's insurance program, which is maintained by the Bureau, includes workmen's compensation, automotive, medical malpractice, administrative negligence liability, marine, fire, boiler insurance, and a blanket employee surety bond. The annual premiums for these coverages are approximately \$364,000. This is an increase of about \$41,000 which is reflected in the increased cost of workmen's compensation coverage. The Bureau reviews and/or negotiates all real estate leases for the Department. As of June 30, 1979, the Department had 196 active leases throughout the Commonwealth, with a yearly rental of over \$2,381,623.

During fiscal year 1979, the Purchasing Section processed 17,206 purchase requisitions and agency purchase orders, an increase of 24 percent over fiscal year 1978. This resulted from improved controls on local purchasing procedures.

A central warehouse is operated by the Central Services Section, for the purchase, storage, and distribution of forms and office, clinic, X-ray, dental, and family planning supplies. Central Services shipped 4,988 orders during the fiscal year which represents an acquisition cost of \$1,210,235, an increase of about \$83,000 over fiscal year 1978. The 6 percent increase resulted from inflationary factors. The reduction in shipping orders was occasioned by the computerization of the entire stock list and the subsequent consolidation of requests for supplies.

The Biologics and Drugs Section processed 41,837 prescriptions and orders valued at \$617,391, a 5 percent decrease in numbers of prescriptions and orders and a 13 percent decrease in value over fiscal year 1978. These reductions resulted from the procurement of vaccines through Federally funded programs and a decrease in the number of prescriptions dispensed for the tuberculosis program.

The total acquisition cost of shipments from Central Supply and the Pharmacy operations for fiscal year 1979 was \$1,754,191.

The Biologics and Drugs Section of the Bureau provides consulting services to all Health Department programs and local health departments, with or without their own pharmacy operations, in the areas of security and proper procedures for the distribution of patient drugs. The pharmacy director provides the necessary technical support for the established pharmacy operations, and advises local health directors regarding the establishment of new pharmacy locations. A pharmacy news letter entitled THE QUARTER GRAIN is published by the section on pharmacology topics of interest to the professional staff of the Department. This news letter and seminars are part of a program of pharmacology education being carried out by the Biologics and Drugs Section. A great amount of staff time has been directed toward staff support of the Virginia Voluntary Formulary Board in the continuing revision process of the Virginia Voluntary Formulary.

ACTIVITIES OF THE SECTION OF BIOLOGICS AND DRUGS
JULY 1, 1978 - JUNE 30, 1979

Program	Number Rx	Cost
TOTAL	<u>41,837</u>	<u>\$617,391.46</u>
Adult Heart	623	4,130.13
Adult Neurology	1,288	12,325.19
Biologics	4,593	108,614.21
Tuberculosis	11,844	141,614.13
Drugs Supplied from Section's Stock	3,107	108,418.72
Miscellaneous	358	6,947.50
Venereal Disease	22	662.12
Local Health Departments Medical Clinics: (Non-General Medical Clinics)	794	54,687.47
Dental Health	104	1,445.60
Maternal/Child Health	14	897.65
CRIPPLED CHILDREN'S BUREAU PROGRAMS:		
Arthritis	39	643.06
Cerebral Palsy	40	693.99
Child Neurology	10,673	81,154.70
Cystic Fibrosis	2,000	46,007.72
Defective Hearing	109	2,630.02
Endocrinology	147	2,744.36
Eye Surgery	59	1,508.26
Hemophilia	3,167	70,574.58
Neurosurgery	80	582.52
Orthopedic	48	1,369.84
Pediatric Cardiology	1,714	9,063.10
Pediatric Urology	487	3,658.81
Rheumatic Fever	522	2,254.33
BCC Dental	5	40.82
Mark up on Hemophac (on BCC owned Hemophac 2/79 thru 6/79)		5,910.02
Total Amount Credited (Returns from Health Department)		(51,187.39)

*Not shown on monthly reports

Measles/Mumps/Rubella	35,930 doses
Measles/Rubella	10,010 doses
Mumps Vaccine	4,410 doses
Oral Polio	122,220 doses
Rubella	4,300 doses
Rubeola	4,960 doses
DT Adult	3,326 vials
DPT	8,121 vials
Tetanus Toxoids	1,097 vials

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1979

STATE DEPARTMENT OF HEALTH Maintenance and Operation	Balance July 1, 1978			State Appropriations 1978-79	Revenue	
	State	Federal	Special		Federal	Other
ADMINISTRATION						
1 General Management and Direction				2,798,230		
2 Accounting and Budgeting Services				382,775		
3 Personnel Services				254,365		
4 Purchasing and General Services			547,661	480,710		1,945,745
5 Health Education				116,225		
6 Staff Development				72,120		
7 Data Processing						
TOTAL			547,661	4,104,425		1,945,745
HEALTH RESEARCH, PLANNING AND COORDI- NATION						
8 Health Planning				78,230	303,116	
9 Resources Development				51,470	199,430	
TOTAL				129,700	502,546	
COMMUNICABLE AND CHRONIC DISEASE PREVENTION AND CONTROL						
10 Cancer Prevention and Control				357,580		
11 Epidemiology and Immunization				285,220		
12 Tuberculosis Prevention and Control				918,705		791
13 Venereal Disease Prevention and Control				237,915		
TOTAL				1,799,420		791
VITAL RECORDS AND HEALTH STATISTICS						
14 Health Statistics				364,245		
15 Registration Services				1,046,375		
TOTAL				1,410,620		
MEDICAL EXAMINER AND ANATOMICAL SERVICES						
16 Anatomical Services			8,928			70,582
17 Medical Examiner				882,765		
TOTAL			8,928	882,765		70,582
18 COMMUNITY HEALTH SERVICES			9,432,175	25,223,000	1,638,550	29,921,034
MEDICAID						
19 Administration		32,652		1,894,755	5,573,073	
20 Medical Care Service		1,491,013		131,037,320	17,568,643	
TOTAL		1,523,665		132,932,075	183,141,716	
EMERGENCY MEDICAL SERVICES						
21 Planning and Development				449,145		
22 Transportation and Services						
TOTAL				449,145		
FAMILY HEALTH SERVICES						
23 Crippled Children Services			682,948	2,439,985	3,078,121	178,367
24 Child Development Clinics				769,895	876,718	
25 Crippled Children Projects					619,810	
26 Family Planning				182,605	140,596	
27 Family Planning Projects		284,479	228,673		3,333,279	591,934
28 Maternal and Child Health			614,232	355,545	247,309	18,467
29 Maternal and Child Health Projects					1,914,930	467,966
TOTAL		284,479	1,525,853	4,248,030	10,210,763	1,256,734
30 NUTRITIONAL SERVICES (WIC)			184,245		9,297,474	
31 LAND MANAGEMENT (SOLID WASTE DISPOSAL)				312,660	303,474	
WATER QUALITY MANAGEMENT AND TECHNICAL ASSISTANCE						
32 Sewage and Wastewater Regulation			1,079,795	882,475		
33 Water Supply Engineering		187,948		376,185	917,617	
TOTAL		187,948	1,079,795	1,258,660	917,617	

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1979 (continued)

Transfers to Other Funds	Transfers From Other Funds	Total Funds Available	Expenditures 1978-79	Balance June 30, 1979			
				State	Federal	Special	
	190,724	2,988,954	2,934,996	53,958			1
	25,510	408,285	395,984	12,301			2
	8,440	262,805	334,535	(71,730)			3
	10,165	2,984,281	2,122,480			861,801	4
	5,755	121,980	128,992	(7,012)			5
	4,410	76,530	104,837	(28,307)			6
	1,334,729	1,334,729	1,264,011	70,718			7
	1,579,733	8,177,564	7,285,835	29,928		361,301	
	48,297	429,643	379,636	3,158	46,849		8
	7,926	258,826	170,815	20,198	67,313		9
	56,223	688,469	550,451	23,356	114,662		
18,205		339,375	302,291	37,084			10
	67,295	352,515	295,286	57,229			11
	1,708,130	2,627,626	2,547,493	79,342		791	12
36,630		201,285	181,454	19,831			13
54,835	1,775,425	3,520,801	3,326,524	193,486		791	
	14,760	379,005	460,952	(81,947)			14
	43,820	1,090,195	783,358	306,837			15
	58,580	1,469,200	1,244,310	224,890			
		79,510	67,375			12,135	16
	20,335	903,100	878,257	24,843			17
	20,335	982,610	945,632	24,843		12,135	
75,235	2,206,406	68,345,930	54,395,674	1	214,570	13,735,685	18
	48,575	7,549,055	7,487,401		61,654		19
5,505,055		304,591,921	301,776,576		2,815,345		20
5,505,055	48,575	312,140,976	309,263,977		2,876,999		
	7,050	456,195	161,252	294,943			21
	133,680	133,680	123,837	9,843			22
	140,730	589,875	285,089	304,786			
	35,001	6,414,422	4,609,739	229	1,638,983	165,471	23
	35,872	1,682,485	1,682,413	72			24
		619,810	407,039		212,771		25
	8,775	331,976	331,958	18			26
167,668	870,515	5,141,212	3,823,803		1,215,250	102,159	27
	30,967	1,766,520	2,508,803	80		(742,363)	28
		2,302,896	2,382,896				29
167,668	981,130	18,339,321	15,746,651	399	3,067,004	(474,733)	
		9,481,719	10,022,081		(540,362)		30
	6,515	622,649	359,119	135,430	128,100		31
43,162	7,396	1,926,504	953,062			973,442	32
	56,406	1,538,156	1,175,017		363,139		33
43,162	63,802	3,464,660	2,128,079		363,139	973,442	

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1979 (continued)

STATE DEPARTMENT OF HEALTH Maintenance and Operation	Balance July 1, 1978			State Appropriations 1978-79	Revenue	
	State	Federal	Special		Federal	Other
DISEASE CARRIER AND VECTOR CONTROL						
34 Assistance to Mosquito Control				212,000		
Commissions				43,570		
35 Vector Control						
TOTAL				255,570		
SPECIAL PUBLIC HEALTH IMPROVEMENT AND DEMONSTRATION SERVICES						
36 Tumor Registry Project			9,933			
37 Hospital Infections Program		(24,724)			36,066	
38 Evaluation Food Service Program			169			
39 Pratt Foundation Fund			7,167			6,000
40 Migrant Labor		2,161			110,000	14,166
41 Immunization Project		129,690			160,136	
42 Health Underserved Rural Area		130,465			(3,578)	35,325
43 Health Facilities Statistics			290,089		237,354	
44 Health Manpower Statistics			(73,032)			
45 Vital Statistics			(2,059)			
46 Alcoholism Research		6,014				
47 Medicaid Physician Study		23,326				1,956
48 Solid Waste Planning		(7,374)				
49 Influenza Immunization		102,643			(103,033)	
50 Cancer Screening Project			(58,723)		68,313	
51 Gonorrhea Project		121,385			375,636	
52 Nuclear Facilities Inspection		17,548			15,600	
53 Emergency Medical Tech. Training			(636)		1,000	
54 Comprehensive Alcoholism			55,763			
55 Lead Control Project			(81,442)		81,261	154,322
56 Cont. Education for Health Directors		81				
57 EMS Planning		19,716				
58 Household Interview Survey			68,061			
59 EMS Planning - Rappanannock						
60 EMS System		(24,358)				
61 EMT Training - DHEW		2,815				
62 Renal Advisory Committee			947			
63 EMS Regional Development		(25,615)				38,495
64 EMS Field Training Officer			(12,880)			
65 Eastern Shore HHS Project			5,969		(9,560)	
66 Comp. Health Planning - 314A		36,247				
67 Comp. Health Planning - 314D		221,786				
68 Special Project Fund			520,415			
69 Hypertension Project		191,637			120,200	
70 EMS Statewide System		37,359			175,000	
71 X-Ray System Testing			1,945		4,634	
72 EMS Public Info./Education			(42,000)			45,000
73 Northern Neck HHS Project		15,835			12,558	
74 Shenandoah Agency on Aging			(879)			13,222
75 Tazewell Prenatal Project			3,809			7,500
76 MASH - Thomas Jefferson						25,989
77 Improved Pregnancy Outcome					100,000	
78 Middle Peninsula HHS Project					37,476	
79 HHS Training Grant					23,960	
80 Genetic Disease Testing					50,983	
81 VAVRS Driver Training Program						
82 VAVRS Problem Solving Workshop						
83 Community Food and Nutrition Program						
84 Kepone Environmental Endorsement Fund						20,000
85 South Fork Survey Project						5,000
86 Appalachia - Administration			758,998	90,000	53,186	
87 Appalachia - P. H. Social Services					57,515	
88 Appalachia - Ped. Hlth. and Child Dev.					55,000	
89 Appalachia - P. H. Nutrition					66,694	
TOTAL		976,637	1,451,614	90,000	1,726,401	366,975

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1979 (continued)

Transfers to Other Funds	Transfers from Other Funds	Total Funds Available	Expenditures 1978-79	Balance June 30, 1979			
				State	Federal	Special	
		212,000	212,000				34
	1,725	45,295	38,915	6,380			35
	1,725	257,295	250,915	6,380			
		9,933				9,933	36
11,342			13,530		(13,530)		37
		169	130			39	38
	13	13,180	8,065			5,115	39
		126,327	126,861		(534)		40
3,506		286,320	268,954		17,366		41
		162,212	95,303		66,909		42
10,033		517,410	50,642		173,952	292,816	43
		(73,032)	79,890			(152,922)	44
		(2,059)	151,252			(153,311)	45
2,892		3,122			3,122		46
		25,282	1,467		23,815		47
		(7,374)	85		(7,459)		48
		(390)	44		(434)		49
7,299		2,291				2,291	50
3,193		493,828	474,964		18,864		51
		33,148	5,661		27,487		52
		364			364		53
		55,763				55,763	54
		154,141	190,505			(36,364)	55
		81			31		56
		19,716	2,136		17,580		57
		68,061	33,219			34,842	58
			189		(189)		59
		(24,358)			(24,358)		60
		2,815			2,815		61
		947				947	62
		12,880			(25,615)	38,495	63
		(12,880)				(12,880)	64
		(3,591)			(3,591)		65
36,247							66
221,786							67
		520,415				520,415	68
3,979		307,858	254,237		53,621		69
8,001		204,358	205,138		(780)		70
75		6,504	4,889		1,615		71
		3,000	3,000				72
		28,393	28,425		(32)		73
		12,343	16,035			(3,692)	74
		11,309	10,714			595	75
		25,989	24,573			1,416	76
		100,000	37,757		62,243		77
		37,476	27,152		10,324		78
		23,960	31,453		(7,493)		79
		50,983	35,626		15,357		80
			304			(304)	81
			584			(584)	82
	21,000	21,000	878			20,122	83
		20,000	30,000			(10,000)	84
		5,000	1,140			3,860	85
	1,215	903,399	27,690		213,695	662,014	86
6,812		50,703	34,345		455	15,903	87
		55,000	123,665		11,093	(79,758)	88
	6,812	73,506	54,218		3,180	16,108	89
315,165	29,040	4,325,502	2,454,720		639,923	1,230,859	

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1979 (continued)

STATE DEPARTMENT OF HEALTH Maintenance and Operation	Balance July 1, 1978			State Appropriations 1978-79	Revenue	
	State	Federal	Special		Federal	Other
90 HIGHER EDUCATION STUDENT FINANCIAL ASSISTANCE				113,000		
REGULATION OF FOOD						
91 Shellfish Sanitation				624,810		
REGULATION OF PUBLIC FACILITIES AND SERVICES						
92 Regulation of Health Care Facilities		287,098		242,420	266,121	5,585
93 Tourist Establishment Sanitation				499,440		
TOTAL		287,098		741,860	266,121	5,585
REGULATION OF INDIVIDUAL SAFETY						
94 O.S.H.A.		(29,810)		378,560	507,522	
REGULATION OF PRODUCTS						
95 Bedding and Upholstery Products Reg.			77,465			119,970
96 Radiological Materials Regulation				175,735		
97 Regulation of Hazardous Products				293,640		
TOTAL			77,465	469,375		119,970
PERSONNEL SERVICES						
98 Joint Merit System Council				221,240		
99 FINANCIAL ASSISTANCE FOR INDIVIDUAL AND FAMILY SERVICES (Facility Construction)		75,293			2,245,774	
GRAND TOTAL - DEPARTMENT OF HEALTH		3,305,310	14,307,736	175,644,915	210,757,958	33,687,416

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1979 (continued)

Transfers to Other Funds	Transfers from Other Funds	Total Funds Available	Expenditures 1978-79	Balance June 30, 1979			
				State	Federal	Special	
		113,000	112,030	970			90
	23,865	648,675	646,956	1,719			91
	11,345 12,125	812,569 511,565	521,359 546,932	35,367 (35,367)	250,258	5,585	92 93
	23,470	1,324,134	1,068,291		250,258	5,585	
	10,330	866,602	830,477	55,638	(19,513)		94
	3,765 4,140	197,435 179,500 297,780	109,145 128,883 343,284	50,617 (45,504)		88,290	95 96 97
	7,905	674,715	581,312	5,113		88,290	
213,112		8,128		8,128			98
		2,321,067	2,300,276		20,791		99
5,374,232	7,033,789	438,362,892	413,798,399	1,015,067	7,115,571	16,433,355	

TABLE 56
EXPENDITURES WITH STATE AND LOCAL SHARE AND REVENUE BY LOCAL HEALTH DISTRICT, VIRGINIA, FISCAL YEAR 1979

Health District	EXPENDITURES			Revenue
	Total	State Share	Local Share	
TOTAL	54,415,041	30,939,660	23,475,381	9,726,718
Alexandria	2,439,251	1,277,990	1,161,261	429,955
Alleghany, Botetourt, Craig, Roanoke County, Clifton Forge, Covington, Salem	1,381,777	866,664	515,113	327,771
Arlington	2,263,204	1,244,762	1,018,442	270,747
Central Shenandoah (Augusta, Bath, Highland, Rockbridge, Rockingham, Buena Vista, Harrisonburg, Lexington, Staunton, Waynesboro)	1,779,577	1,141,587	637,990	210,814
Central Virginia (Amherst, Appomattox, Bedford Co., Campbell, Lynchburg, Bedford City)	1,570,482	903,027	667,455	271,404
Charles City County, Goochland, Hanover, New Kent	704,058	433,408	270,650	111,206
Chesapeake	894,517	491,984	402,533	191,481
Chesterfield, Powhatan, Colonial Heights	1,029,878	545,542	484,336	118,739
Crater (Dinwiddie, Greensville, Prince George, Surry, Sussex, Emporia, Hopewell, Petersburg)	1,633,991	996,881	637,110	461,906
Cumberland Plateau (Buchanan, Dickenson, Russell, Tazewell)	975,198	551,099	424,099	186,780
Eastern Shore (Accomack, Northampton)	680,698	447,189	233,509	211,647
Fairfax County, Fairfax City, Falls Church	6,098,879	2,836,196	3,262,683	436,542
Franklin County, Henry, Patrick, Martinsville	743,990	461,487	282,503	134,921
Hampton	1,120,852	616,469	504,383	288,614
Henrico	937,831	515,807	422,024	128,720
Lenowisco (Lee, Scott, Wise, Norton)	833,096	564,505	268,591	203,847
Lord Fairfax (Clarke, Frederick, Page, Shenandoah, Warren, Winchester)	999,884	599,660	400,224	149,600
Loudoun	647,728	356,250	291,478	163,292
Middle Peninsula (Essex, Gloucester, King and Queen, King William, Mathews, Middlesex)	564,360	395,245	169,115	107,492
Mount Rogers (Bland, Carroll, Grayson, Smyth, Washington, Wythe, Bristol, Galax)	1,638,796	1,095,654	543,142	457,726
New River (Floyd, Giles, Montgomery, Pulaski, Radford)	884,038	551,099	332,939	142,086
Norfolk	3,971,509	2,184,330	1,787,179	410,988
Northern Neck (Lancaster, Northumberland, Richmond, Westmoreland)	539,911	384,010	155,901	99,755
Peninsula (James City County, York, Newport News, Poquoson, Williamsburg)	3,359,663	1,887,267	1,472,396	1,144,882
Piedmont (Amelia, Buckingham, Charlotte, Cumberland, Lunenburg, Nottoway, Prince Edward)	800,534	589,858	210,676	138,610
Pittsylvania, Danville	861,490	473,820	387,670	118,682
Prince William, Manassas, Manassas Park	1,255,678	629,424	626,254	115,462
Rappahannock Area (Caroline, King George)	837,787	513,843	323,944	144,301
Rappahannock-Rapidan (Culpeper, Fauquier, Madison, Spotsylvania, Stafford, Fredericksburg)	1,079,695	653,454	426,241	138,118
Rappahannock (Orange, Rappahannock)	4,209,020	2,314,961	1,894,059	641,329
Richmond City	1,494,894	822,192	672,702	347,505
Roanoke City	610,946	395,050	215,896	123,057
Southside (Brunswick, Halifax, Mecklenburg, South Boston)	1,482,080	868,934	613,146	280,933
Thomas Jefferson (Albemarle, Fluvanna, Greene, Louisa, Nelson, Charlottesville)	2,824,794	1,634,287	1,190,507	802,068
Tidewater (Isle of Wight, Southampton, Franklin City, Portsmouth, Suffolk)	1,264,955	695,725	569,230	215,738
Virginia Beach				

TABLE 57
EXPENDITURES, REVENUE, STATE AND LOCAL FUNDS BY LOCAL HEALTH DISTRICT, VIRGINIA, FISCAL YEAR 1979

Health District	Expenditures	Revenue	Total	Expenditures Less Revenue		100% Local Funds
				State Share	Local Share	
TOTAL	54,415,041	9,726,718	44,688,323	24,916,637	17,822,360	1,949,326
Alexandria	2,439,251	429,955	2,009,296	1,000,486	818,579	190,231
Alleghany, Botetourt, Craig, Roanoke County, Clifton Forge, Covington, Salem	1,381,777	327,771	1,054,006	682,404	371,602	153,856
Arlington	2,263,204	270,747	1,992,457	1,011,231	827,370	
Central Shenandoah (Augusta, Bath, Highland, Rockbridge, Rockingham, Buena Vista, Harrisonburg, Lexington, Staunton, Waynesboro)	1,779,577	210,814	1,568,763	1,006,378	562,385	
Central Virginia (Amherst, Appomattox, Bedford Co., Campbell, Lynchburg, Bedford City)	1,570,482	271,404	1,299,078	747,085	551,993	
Charles City County, Goochland, Hanover, New Kent	704,058	111,206	592,852	363,058	229,794	
Chesapeake	894,517	191,481	703,036	386,670	316,366	
Chesterfield, Powhatan, Colonial Heights	1,029,878	118,739	911,139	455,448	327,746	127,945
Crater (Dinwiddie, Greensville, Prince George, Surry, Sussex, Emporia, Hopewell, Petersburg)	1,633,991	461,906	1,172,085	722,238	449,847	
Cumberland Plateau (Buchanan, Dickenson, Russell, Tazewell)	975,198	186,780	788,418	418,103	290,738	79,577
Eastern Shore (Accomack, Northampton)	680,698	211,647	469,051	308,146	160,905	
Fairfax County, Fairfax City, Falls Church	6,098,879	436,542	5,662,337	2,539,132	2,064,433	1,058,772
Franklin County, Henry, Patrick, Martinsville	743,990	134,921	609,069	372,471	236,598	
Hampton	1,120,852	288,614	832,238	457,731	374,507	
Henrico	937,831	128,720	809,111	445,011	364,100	
Lenowisco (Lee, Scott, Wise, Norton)	833,096	203,847	629,249	419,956	199,814	9,479
Lord Fairfax (Clarke, Frederick, Page, Shenandoah, Warren, Winchester)	999,884	149,600	850,284	509,941	340,343	11,701
Loudoun	647,728	163,292	484,436	260,004	212,731	
Middle Peninsula (Essex, Gloucester, King and Queen, King William, Mathews, Middlesex)	564,360	107,492	456,868	319,853	137,015	
Mount Rogers (Bland, Carroll, Grayson, Smyth, Washington, Wythe, Bristol, Galax)	1,638,796	457,726	1,181,070	789,631	391,439	
New River (Floyd, Giles, Montgomery, Pulaski, Radford)	884,038	142,086	741,952	462,524	279,428	
Norfolk	3,971,509	410,988	3,560,521	1,958,287	1,602,234	
Northern Neck (Lancaster, Northumberland, Richmond, Westmoreland)	539,911	99,755	440,156	313,178	126,978	
Peninsula (James City County, York, Newport News, Poquoson, Williamsburg)	3,359,665	1,144,882	2,214,781	1,244,959	969,822	
Piedmont (Amelia, Buckingham, Charlotte, Cumberland, Lunenburg, Nottoway, Prince Edward)	800,534	138,610	661,924	487,936	173,988	
Pittsylvania, Danville	861,490	118,682	742,808	408,544	334,264	
Prince William, Manassas, Manassas Park	1,255,678	115,462	1,140,216	546,734	404,494	188,988
Rappahannock Area (Caroline, King George, Spotsylvania, Stafford, Fredericksburg)	837,787	144,301	693,486	424,471	269,015	
Rappahannock-Rapidan (Culpeper, Fauquier, Madison, Orange, Rappahannock)	1,079,695	138,118	941,577	535,452	349,270	56,855
Richmond City	4,209,020	641,329	3,567,691	1,962,230	1,605,461	
Roanoke City	1,494,894	347,505	1,147,389	631,064	516,325	
Southside (Brunswick, Halifax, Mecklenburg, South Boston)	610,946	123,057	487,889	316,348	171,541	
Thomas Jefferson (Albemarle, Fluvanna, Greene, Louisa, Nelson, Charlottesville)	1,482,080	280,933	1,201,147	704,225	496,922	
Tidewater (Isle of Wight, Southampton, Franklin City, Portsmouth, Suffolk)	2,824,794	802,068	2,022,726	1,128,639	822,165	71,922
Virginia Beach	1,264,955	215,738	1,049,217	577,069	472,148	

HEALTH PLANNING AND RESOURCES DEVELOPMENT

Effective July 1, 1976, the Virginia State Department of Health, as assigned by the Governor, established the Division of Health Planning and Resources Development to perform the responsibilities of the State Health Planning and Development Agency (SHPDA) under PL 93-641, the National Health Planning and Resources Development Act of 1974. Subsequent passage of State health planning legislation (Code of Virginia, Title 32, Chapter 4, Article 4) established the Statewide Health Coordinating Council (SHCC), designated the State Health Department as the SHPDA, and prescribed their respective powers and duties under State law. Both State and Federal health planning legislation promote the improvement of planning and coordination of health care services and place greater emphasis on the rational allocation of health care resources.

The Division is organized into three Bureaus -- Health Planning, Resources Development, and Vital Records and Health Statistics. The broad scope of the Division's responsibilities include: the development and revision of the Virginia State Health Plan and the State Medical Facilities Plan; the administration of the Virginia Certificate of Public Need program; and official custodian of the records of birth, death, fetal death, marriage, and divorce for events occurring in the Commonwealth.

HEALTH PLANNING

The primary responsibility of the Bureau of Health Planning is the development and revision of the Virginia State Health Plan, subject to the approval of the SHCC. Under PL 93-641, a Health Systems Agency was designated in each of six geographical regions of the Commonwealth (Northwestern Virginia Health Systems Agency, HSA I; Northern Virginia Health Systems Agency, HSA II; Southwest Virginia Health Systems Agency, HSA III; Central Virginia Health Systems Agency, HSA IV; Eastern Virginia Health Systems Agency, HSA V; and, Appalachian Regional Council for Health Advancement Health Systems Agency, HSA VI, serving the counties of Washington and Scott and the city of Bristol, Virginia). Each agency, which is governed by a body of citizens who reside in the region, has responsibility and authority under Federal health planning legislation to determine the needs for health care services in its region and to develop a plan to meet these needs over a five-year period.

At the State level, the SHCC, which in Virginia has 34 members appointed by the Governor, is responsible for the preparation and issuance of a State Health Plan based on the regional Health Systems Plans as well as on other State plans and policy documents. The first Virginia State Health Plan was approved by the SHCC on April 18, 1979. The adoption of this State Health Plan marks the completion of an intensive two year development program by the SHCC and the State Health Department.

The State Health Plan represents a statement by both the State Health Department and the SHCC of those actions necessary to improve the health care system in Virginia. The State Health Plan describes the health status of the residents of Virginia, examines selected health care service areas, projects the need for health services and resources during the next five years, and delineates strategies for meeting these needs.

The active participation of public and private agencies and organizations whose planning and program activities impact on Virginia's health care system has been a major feature in the development of goals, objectives, and recommended actions articulated in the State Health Plan. Activities, especially among Federally-aided State-operated programs, will be coordinated to promote the elimination of duplicate services and to develop goals and long-term actions consistent with the following priorities identified in the State Health Plan:

Containing increases in acute care hospital costs

Ensuring quality and cost-effective nursing home services and providing alternative levels of long-term care, e.g., home health care, homes for adult care, and geriatric day care

Assuring the availability and accessibility of well child services, immunization services, family planning, and prenatal services

Providing general and preventive dental services in areas which are currently underserved

Developing a more accurate information base necessary for effective health planning in such areas as primary medical care, surgery, emergency medical services, mental health, mental retardation, and substance abuse

Developing a regionalized system of perinatal (maternal and newborn) services

Increasing emphasis on the screening, detection, and control of hypertension and venereal disease

Improving financial accessibility to obstetrical and neonatal services.

The Commonwealth's first State Health Plan will be the basis from which more comprehensive and definitive plans will be developed in future years.

State and Federal planning legislation provides the State Health Department and the SHCC with authority through which the State Health Plan may be implemented. The State Health Department and the SHCC can implement the State Health Plan by establishing liaison with other health advisory bodies in the State and encouraging them to consider Statewide health needs described in the State Health Plan when they develop and implement their own plans. The SHCC advises the Commissioner of Health on the existence of a public need for proposed projects which are included under the State and Federal Certificate of Public Need Programs. These recommendations are guided by information contained in the State Health Plan and the State Medical Facilities Plan.

The SHCC, with the assistance of the SHPDA, will use the State Health Plan as a basis for conducting the annual review and approval or disapproval of any plan or application submitted by an agency of the Commonwealth for the receipt of Federal funds under the allotments made to the State under the United States Public Health Services Act, the Community Mental Health Centers Act, and the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment, and Rehabilitation Act. Programs subject to review and approval include: Alcohol Formula Grants, State Plan Required by Section 237 - Community Mental Health Centers Act, State Medical Facilities Plan (Title XVI, PHS Act), Comprehensive Public Health Service Formula Grants, and Hypertension Program.

The State Health Department and the SHCC can implement the State Health Plan through mandated responsibility under the law for appropriateness review (PL 93-641, Section 1523 (a) (6)), which requires review at least once every five years of all institutional health services being offered in the Commonwealth. After considering the recommendations submitted by the health systems agencies and the SHCC regarding such services and after review by the Board of Health, the findings can be made public. Final regulations have yet to be published by DHEW on this function.

The principal focus for first year actions necessary for the accomplishment of the priority goals and objectives of the State Health Plan are reflected in the State Annual Implementation Plan (SAIP) which was approved by the SHCC on June 20, 1979.

The Bureau of Health Planning also provides staff assistance to the SHCC in the performance of its other responsibilities under health planning legislation (e.g. the review of Health Systems Plans and Annual Implementation Plans). The Bureau promotes the development of public health plans to carry out designated program activity and to insure that all such plans are consistent with the goals and objectives of the State Health Plan and Health Systems Plans. In addition, technical planning assistance to the organizational units within the State Health Department is provided by the Bureau of Health Planning in such areas as grantsmanship, management-by-objectives, and organizational analysis.

RESOURCES DEVELOPMENT

The primary responsibilities of the Bureau of Resources Development include the administration of the Virginia Certificate of Need Program as provided for in Sections 32.1-93 et. seq., of the Code of Virginia of 1950, as amended; the development of a State Medical Facilities Plan which inventories the current status and projects the need for acute and long term care medical facilities in the Commonwealth; the administration of the Federal Hill-Burton Medical Facility Program; the review and approval or disapproval of State Plans and applications submitted to the Secretary of DHEW as a condition to the receipt of Federal funds under allotments made to the State under the Public Health Services Act, the Community Mental Health Centers Act, Sections 409 and 410 of the Drug Abuse Office and Treatment Act, and the Comprehensive Alcohol Abuse and Alcohol Prevention, Treatment and Rehabilitation Act of 1970; the review of applications submitted by Health Systems Agencies for grants under Section 1640 of P.L. 93-641; serving as the State Clearinghouse for health related grants subject to review under OMB Circular A-95; and providing staff support to the Program Evaluation Committee and Facilities and Services Review Committee of the Statewide Health Coordinating Council. In addition, the Bureau of Resources Development provides some staff support and assistance to the Bureau of Health Planning in its development of the State Health Plan and Annual Implementation Plan and to other Divisions of Health Department for the conduct of legislative studies such as one on hospices.

During fiscal year 1979, the Bureau of Resources Development reviewed and provided recommendations on approximately 120 projects through the Virginia Certificate of Need Program; completed the 1978 State Medical Facilities Plan; developed the process document for and began to prepare the 1979 State Medical Facilities Plan; processed 12 claims and responded to 75 inquiries regarding the Hill-Burton program; provided staff support for 10 meetings of the Program Evaluation Committee and 12 meetings of the Facilities and Services Review Committee of the SHCC; reviewed and provided comment on the fiscal year 1978

Progress Report and Update of the Virginia Comprehensive Mental Health Services Plan and the fiscal year 1979 Virginia Substance Abuse Plan; and handled approximately 50 applications through the A-95 process. In addition, staff of the Bureau of Resources Development served as the SHPDA staff liaisons to two of the Virginia Health Systems Agencies.

VITAL RECORDS AND HEALTH STATISTICS

In order to perform the duties required by Virginia statutes, the Bureau of Vital Records and Health Statistics is divided into two major sections: Registration Services, which is responsible for obtaining, storing and issuing copies of Virginia's vital records, and the Center for Health Statistics, which provides health information and statistical data on request.

Registration Services

For more than half a century, the Registration Services section of the Bureau has served as official custodian of the records of birth, death, fetal death, marriage, and divorce of Virginia's citizens. Each year over 200,000 vital records are added to the nearly nine million such documents stored in the Bureau's vaults. Birth certificates are prepared by the hospital or attendant at birth; death certificates and fetal death reports are prepared by the funeral director or hospital, with the cause of death certified by the attending physician or medical examiner. These three records (birth, death, and fetal death) are filed with the health department in the city or county in which the event occurred and are forwarded twice each month to the State office. Records of marriage, divorce, court orders of adoption, legal change of name, etc., are received from the clerks of court throughout the State. In addition, reports of certain weapon inflicted injuries are received direct from the courts and police officials throughout the State as required by statute.

Vital records are issued to the public upon request of the registrant, member of his family, or legal representative. Fees obtained from these copies are deposited in the State Treasury.

During 1978, the Bureau issued 220,217 certified copies of vital records, representing a 3.2 percent increase in this service over 1977. Of the certified copies issued, 91.7 percent were birth record copies which included 33,822 birth cards. The total birth record copies issued represents an increase of 3.1 percent over the number issued in 1977. In 1978, fees received for certified copies and other record services totaled \$517,582, an increase of approximately \$47,987, or 10.2 percent, over 1977.

A total of 58,422 free verifications to official agencies were made in 1978, 25.3 percent more than the number recorded in 1977. Of the total free verifications in 1978, 91.7 percent involved birth records.

Also, some 50,000 free verifications of information from the records are provided yearly to Federal, State, or local agencies representing the interest of the individual.

For those Virginians without a birth record, assistance is provided by establishing a delayed certificate of birth upon presentation of satisfactory evidence to prove date and place of birth and parentage.

In cases of adoption, or legitimation, a new birth certificate is usually prepared reflecting the facts as shown in the adoption decree or affidavit of paternity. By this procedure, the individual is assured of having a birth record that appears no different from that of any other person.

CERTAIN ACTIVITIES OF THE BUREAU OF VITAL RECORDS
AND HEALTH STATISTICS, 1977 AND 1978

	1977	1978
Certified Copies Issued	<u>213,411</u>	<u>220,217</u>
Births	195,895	202,031
Birth Cards	(30,130)	(33,822)
Deaths	12,369	13,281
Marriages	4,362	4,228
Divorces	760	664
Fetal deaths	25	13
Free Verifications Issued	<u>46,634</u>	<u>58,422</u>
Births	45,174	53,554
Deaths	432	1,542
Marriages	777	2,537
Divorces	251	789
Money Received	\$469,595	\$517,582
Mail Handled (Pieces)	512,582	544,066
Daily Average (250 Working Days)		
Certified copies	854	881
Free verifications	187	234
Mail handled (pieces)	2,050	2,176

Center for Health Statistics

On January 31, 1975, the State Department of Health established the Virginia Center for Health Statistics within the Bureau of Vital Records and Health Statistics. The Center has general responsibilities for data program development, data systems operations, data analysis and consultation, and the statistics from the vital records system. A Producer-User Advisory Council has been appointed to provide a forum in which users can enumerate needs, the producers can respond, and the Center can be advised on data requirements regarding feasibility, costs, impact on health care, and such matters.

The Center for Health Statistics provides health information and statistical data for the Department's divisions and bureaus, local health departments, and other public and private health-related agencies. Interpretations are made for popular use, such as the news media, or for use in scientific research.

Vital statistics and other health program information are abstracted through the establishment of data collection systems which provide factual, up-to-date statistics regarding the various aspects of the health of the people of Virginia. Health manpower and health facilities data are gathered in cooperation with Virginia licensing agencies. Data gathered relate the health characteristics

of the people to the availability and use of health manpower and facilities and to health services provided. Health data are also related to demographic characteristics of the population served and to the population eligible for the service, using available U.S. census data and State population estimates.

After editing and coding, where necessary, data are tabulated by computerized or manual means depending upon difficulty and volume of items. Compilations are analyzed and interpreted according to modern statistical methods. Data presentations are made through the use of tables, graphs, charts, narratives, and other interpretive methods to show health conditions and their relations to past trends and future projections.

Vital statistics information for Virginia and for the cities and counties has been recorded in the Bureau annually since 1912 and is available to individuals and agencies upon request. Current vital statistics data are published regularly in monthly and quarterly summaries. Statistical summaries of all Health Department bureaus and divisions are published annually in the "Statistical Annual Report of the Virginia State Department of Health." Selected nonpublished data are also available.

Information pertaining to Virginia's hospitals and nursing homes has been collected through a common system since 1975 and is available upon request for the years 1975 through 1978. Facility inventory statistics have been expanded to include homes for adults and mental health and mental retardation facilities. Data are available for 1977 and 1978.

A system for collecting health manpower information was initiated in 1976. Data in published form are available on request and include aggregate information on the following occupations: audiologists, dental hygienists, dentists, licensed practical nurses, nursing home administrators, opticians, optometrists, pharmacists, physicians, registered nurses, speech pathologists, and veterinarians.

When essential or desired special purpose health information does not fall within the scope of the regular data collection systems, Center personnel, in consultation with the bureau or division directors, conduct or participate in special statistical studies, sample surveys, and like activities.

MEDICAL EXAMINER SYSTEM

The Medical Examiner Division provides medical services and interpretation which are integral to an adequate investigation of human death cases. The Division is charged with the investigation of all deaths due to trauma, injury, violence, or poisoning; accident, suicide, or homicide; or suddenly when in apparent health; or when unattended by a physician; or in jail, prison, other correctional institution or in police custody; or in any suspicious, unusual or unnatural manner.

The Medical Examiner Division is composed of approximately 400 licensed physicians in the counties and cities who serve as local medical examiners. The Division recruits, appoints, and supervises the activities of these physicians across the Commonwealth. Through its four District offices in Richmond, Norfolk, Roanoke, and Fairfax, the Division provides forensic pathology services (postmortem examinations) to these county and city medical examiners on all cases which require detailed medico-legal autopsy. The five forensic pathologists in the Division perform the medico-legal autopsies, formulate diagnoses and opinions, and appear in legal proceedings concerning their cases. The Division administrative personnel handle the records and administrative matters, and issue legal documents to parties in interest to each case. Close interaction exists with law enforcement agencies, insurers, survivors, physicians, hospitals, funeral directors, rescue squads, health department personnel, press personnel, lawyers, and courts.

MEDICAL EXAMINER ACTIVITIES BY DISTRICT VIRGINIA, 1978

	Virginia	Central Richmond	Tidewater Norfolk	Western Roanoke	Northern Fairfax
Medical Examiner Cases	7,861	2,229	1,861	2,271	1,500
Natural	4,241	1,166	1,062	1,175	838
Violent	3,608	1,060	796	1,094	658
Accident	2,398	719	525	746	408
Suicide	738	177	155	226	180
Homicide	472	164	116	122	70
Undetermined	12	3	3	2	4
Autopsies Authorized	2,714	717	434	498	1,065
Toxicology	6,015	2,479	927	1,040	1,569
*Cremations	1,155	206	286	123	540

*(Certificates issued on non-medical examiner deaths)

There were 40,196 deaths from all causes in Virginia in calendar year 1978 out of a total population of 5,148,100. Of these deaths, 7,861 (excluding cremations), or 19.6 percent, were investigated by the Medical Examiner. Official autopsies were authorized as part of the investigation in 2,714, or 34.5 percent, of these cases. The manner of death was determined to be accidental for 2,398 or 30.5 percent, of the cases. The kinds of fatal accidents most frequently investigated in 1978 involved motor vehicles.

MEANS OF ACCIDENTAL DEATHS INVESTIGATED
BY THE MEDICAL EXAMINER, VIRGINIA, 1978

Means	Number	Percent
TOTAL	2,398	100.0
Motor Vehicles	1,087	45.3
Falls	415	17.3
Fires (burns & carbon monoxide)	179	7.5
Drownings	158	6.6
Poisonings (except fires/carbon monoxide)	158	6.6
Alcohol	88	3.7
Narcotics/abused drugs	23	0.9
Carbon monoxide (exhaust)	24	1.0
Other poisoning	23	1.0
Other means	401	16.7

In 1978, there were 738 suicides which accounted for 9.4 percent of all deaths investigated. This was 56.4 percent more than the number of homicides. More than two-thirds of the suicides (67.2 percent) were caused by self-inflicted gunshot wounds. Other common methods used were poisoning and hanging.

MEANS OF SUICIDE DEATHS INVESTIGATED
BY THE MEDICAL EXAMINER, VIRGINIA, 1978

Means	Number	Percent
TOTAL	738	100.0
Firearms	496	67.2
Poisonings	129	17.5
Carbon monoxide	32	4.3
Narcotics/abused drugs	18	2.5
Barbiturates	22	3.0
Other	57	7.7
Hangings	51	6.9
Drownings	25	3.4
Jumps	8	1.1
Other means	29	3.9

In regard to the various characteristics of those taking their own lives, the largest numbers were in the age group 20-24 years (87), white male (479), married (308), and not working, student or retired (198). There were 35 teen-age suicides with 2 of these under 15 years of age.

Medical Examiner investigations revealed 472 homicides in 1978. In 72.9 percent of the homicides, firearms was the fatal agency.

In 1978, 73.3 percent of the homicide victims were male (346) and of these, the majority were nonwhite males (184).

MEANS OF HOMICIDE DEATHS INVESTIGATED
BY THE MEDICAL EXAMINER, VIRGINIA, 1978

Means	Number	Percent
TOTAL	472	100.0
Firearms	344	72.9
Cutting instruments/stabbing	55	11.6
Beating/blows/blunt instruments	41	8.7
Strangulation	8	1.7
Other means	24	5.1

The number of deaths involving guns or firearms was reduced from 955 in 1977 to 882 in 1978. A comparison of deaths due to firearms for the past eight years is shown in the next table. For each year, the largest number of firearm deaths referred to suicides.

FIREARMS DEATHS INVESTIGATED BY THE MEDICAL EXAMINER
VIRGINIA, 1971-1978

Manner of Death	1971	1972	1973	1974	1975	1976	1977	1978
TOTAL	801	870	947	995	996	973	955	882
Accident	70	65	73	73	78	45	52	42
Suicide	387	429	466	483	495	542	553	496
Homicide	344	376	408	439	423	386	350	344

Tests for alcohol determination were performed on 1,941, or 24.7 percent, of the Medical Examiner cases. Examinations for the presence of alcohol were performed on 879 accident victims, 282 suicides and 277 homicides. Circumstances required that 499 of those who died from natural causes be tested for the presence of alcohol. Positive findings were indicated on 1,418 (73.1 percent) of the victims tested. Alcohol was found to be a factor in at least 18.0 percent of all deaths within the jurisdiction of the medical examiner.

Of these decedents tested for alcohol 74.1 percent (1,438 deaths) were attributed to external means. Of these 1,098, (76.4 percent) were positive, and 835 (58.1 percent) were found to have had an alcohol level of 0.10 percent or higher. Included in the deaths for 1978 were 88 persons whose deaths were attributed to the consumption of alcohol.

Alcohol tests were performed on 419 of the 882 decedents whose deaths were due to firearms. A total of 316 were positive for alcohol. This figures to be 75.4 percent of those tested and 35.8 percent of total firearm deaths.

There were 561 fatalities designated as drivers of motor vehicles including motorcycles. Alcohol tests were performed on 280 (49.9 percent), 222 of whom registered positive levels. This represents 39.6 percent of total driver crash victims.

BLOOD ALCOHOL LEVELS IN FIREARM DEATHS INVESTIGATED BY THE MEDICAL EXAMINER
VIRGINIA, 1978

Blood Alcohol Level	Total	Accident	Suicide	Homicide
TOTAL DEATHS	882	42	496	344
TOTAL TESTS	419	16	196	207
Blood Alcohol Level:				
Negative	103	9	54	40
Positive (Less than 0.10%)	78	2	36	40
0.10%-0.14%	55	2	23	30
0.15%-0.19%	67		32	35
0.20%-0.24%	61	3	23	35
0.25%-0.29%	27		11	16
0.30%-0.34%	16		9	7
0.35%-0.39%	10		7	3
0.40% or more	2		1	1

BLOOD ALCOHOL LEVELS IN MOTOR VEHICLE FATALITIES INVESTIGATED BY THE MEDICAL EXAMINER
VIRGINIA, 1978

Means	Number Deaths	Total Tested	Blood Alcohol Percent								
			Neg.	Pos. <.10	.10 .14	.15 .19	.20 .24	.25 .29	.30 .34	.35 .39	.40+
TOTAL	1,095	499	109	95	80	77	75	34	21	4	4
ACCIDENT											
Motorcycle	69	30	7	8	7	5	2	1			
M.V. Driver	490	249	51	48	35	41	44	16	10	3	1
M.V. Pass.	263	105	25	24	20	20	8	6	2		
M.V. Ped.	196	74	11	8	13	4	16	11	8		3
M.V. N.S.	69	37	14	7	5	5	5			1	
SUICIDE											
M.V. Driver	2	1				1					
M.V. Ped.	2										
HOMICIDE											
M.V. Ped.	4	3	1			1			1		

An autopsy may be authorized by the Medical Examiner or by the Chief Medical Examiner if in his opinion such autopsy is advisable and in the public interest, or an autopsy may be requested by the Attorney for the Commonwealth or by the judge of the circuit court. The total number of autopsies performed on medical examiner cases in 1978 was 2,714 which gives an autopsy rate of 34.5 percent.

NUMBER AND PERCENT OF MEDICAL EXAMINER CASES WITH AUTOPSY INDICATED
BY AUTHORIZATION AND MANNER OF DEATH, VIRGINIA, 1978

Authorization	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
MEDICAL EXAMINER CASES	7,851	2,398	738	472	4,231	12
Autopsies: Total	2,714	884	382	466	971	11
Percent	34.6	36.9	51.8	98.7	22.9	91.7
Autopsy Authorized by:						
Medical Examiner	2,564	798	374	454	930	8
Chief Medical Examiner	23	7	2	11	3	
Commonwealth Attorney	3	2			1	
Family	106	71	2		32	1
Other	18	6	4	1	5	2

TABLE 58
MEDICAL EXAMINER ACTIVITIES
MANNER OF DEATH BY AGE GROUP
VIRGINIA, 1978

Age Group	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	7,861	2,398	738	472	4,241	12
Under 1	174	21		4	148	1
1-4	69	49		7	13	
5-9	60	55			5	
10-14	88	71	2	6	9	
15-19	361	271	33	37	19	1
20-24	496	317	87	60	30	2
25-29	342	165	79	71	26	1
30-34	337	130	78	63	64	2
35-39	317	119	52	45	100	1
40-44	362	99	49	37	177	
45-49	476	117	56	29	274	
50-54	614	142	73	25	374	
55-59	742	132	66	29	515	
60-64	749	121	46	18	563	1
65-69	719	126	38	12	542	1
70-74	599	100	32	11	455	1
75 and over	1,277	339	42	10	885	1
Not stated	79	24	5	8	42	

TABLE 59
MEDICAL EXAMINER ACTIVITIES
MANNER OF DEATH BY SEX AND RACE
VIRGINIA, 1978

Sex/Race	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	7,861	2,398	738	472	4,241	12
White male	3,807	1,236	479	162	1,925	5
White female	1,736	545	176	74	937	4
Nonwhite male	1,591	461	58	184	886	2
Nonwhite female	696	147	22	52	474	1
Not stated	31	9	3		19	

TABLE 60
MEDICAL EXAMINER ACTIVITIES
MANNER OF DEATH BY MARITAL STATUS
VIRGINIA, 1978

Marital Status	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	7,861	2,398	738	472	4,241	12
Single	1,530	701	136	124	566	3
Married	2,584	647	308	135	1,490	4
Widowed	962	213	46	19	683	1
Divorced	346	72	41	18	215	
Not stated	2,139	765	207	176	1,287	4

TABLE 61
MEDICAL EXAMINER ACTIVITIES
MANNER OF DEATH BY OCCUPATION
VIRGINIA, 1978

Occupation	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	7,861	2,398	738	472	4,241	12
Professional, technical and kindred workers	188	49	32	6	100	1
Farmers, laborers and farm managers	117	37	8	7	65	
Managers, officials and proprietors, excluding farm managers	153	38	28	16	70	1
Clerical and kindred workers	118	30	21	11	54	2
Sales workers	53	9	8	2	34	
Craftsmen, foremen and kindred workers	273	102	38	14	119	
Operatives and kindred workers	249	121	28	21	79	
Private household workers	52	8	4	3	37	
Service workers, including armed forces	194	76	21	23	73	1
Laborers, excluding farm workers	438	168	36	43	191	
Not working force (infant or preschool, student, housewife, retired, etc.)	3,283	880	198	74	2,129	2
Unemployed						
Not stated	2,743	880	316	252	1,290	5

TABLE 62
MEDICAL EXAMINER ACTIVITIES
MANNER OF DEATH BY TYPE OF DEATH
VIRGINIA, 1978

Type of Death	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	7,861	2,398	738	472	4,241	12
In prison	21			1	20	
Suspicious	88				84	4
Unusual-(operating room)	9	2			7	
Unusual-(other)	235				231	4
Sudden in apparent health:						
Instantaneous without obvious cause	1,209				1,207	2
After unexplained coma	1				1	
After unexplained rapidly failing illness	1				1	
Unattended by a physician:						
Found dead without obvious cause	2				2	
Unattended during fatal illness	2,690				2,688	2
Stillbirth attended by midwife						
Violent or unnatural	3,605	2,396	738	471		

TABLE 63
MEDICAL EXAMINER ACTIVITIES
VIOLENT DEATHS WITH NUMBER OF AUTOPSIES BY EXTERNAL MEANS BY MANNER OF DEATH
VIRGINIA, 1978

Means of Death	Total Deaths/Autopsies		Manner of Death					
			Accident Deaths/Autopsies		Suicide Deaths/Autopsies		Homicide Deaths/Autopsies	
TOTAL	3,608	1,732	2,398	884	738	382	472	466
Aircraft	28	24	28	24				
Animals	5	3	5	3				
Beatings/blows/blunt instruments	47	45	6	5			41	40
Bicycle	8	4	8	4				
Burns/fire	71	26	63	20	4	2	4	4
Cafe coronary-food ingestion	27	12	27	12				
Cave in	8	5	8	5				
Cutting instrument/stab	64	61	2	2	7	4	55	55
Drowning	184	83	158	67	25	15	1	1
Electricity	31	13	31	13				
Explosion	11	5	10	4			1	1
Exposure-heat	5	3	5	3				
Exposure-cold	34	15	33	14			1	1
Falling object	46	16	46	16				
Fall	420	120	415	116	4	3	1	1
Gun	882	596	42	27	496	230	344	339
Hanging	59	27	8	4	51	23		
Jump	10	4	2	2	8	2		
Insect/bee stings	1		1					
Lightning	2		2					
Machinery	17	7	17	7				
Motorcycle	69	12	69	12				
Motor vehicle-driver	492	157	490	157	2			
passenger	263	62	263	62				
pedestrian	202	76	196	72	2		4	4
unknown	69	21	69	21				
Plastic bag	3				3			
Poisoning								
Alcohol	88	53	88	53				
Barbiturate	24	20	2	1	22	19		
CO-motor vehicle exhaust	41	26	12	10	28	15	1	1
other internal combustion system exhaust	14	7	12	6	2	1		
fire/smoke inhalation	124	72	116	65	2	1	6	6
Narcotics/abused drugs	41	39	23	21	18	18		
Other poisons	79	62	21	16	57	45	1	1
Strangulation	10	10	2	2			8	8
Suffocation	20	10	17	8	2	1	1	1
Tractor	30	5	30	5				
Train	27	9	24	7	2	1	1	1
Other	44	16	40	13	3	2	1	1
Undetermined	8	6	7	5			1	1

TABLE 64
MEDICAL EXAMINER ACTIVITIES
CASES WITH ALCOHOL TESTS BY MANNER OF DEATH
VIRGINIA, 1978

Percent Alcohol Blood Level	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	1,941	879	282	277	499	4
Negative	523	206	81	53	182	1
Positive <.10	424	143	64	56	159	2
.10-.14	217	113	26	35	43	
.15-.19	233	113	43	47	29	1
.20-.24	214	108	33	42	31	
.25-.29	135	69	13	24	29	
.30-.34	101	58	13	12	18	
.35-.39	49	32	8	4	5	
.40 and over	45	37	1	4	3	

TABLE 65
MEDICAL EXAMINER ACTIVITIES
CASES WITH BARBITURATE TESTS BY MANNER OF DEATH
VIRGINIA, 1978

Barbiturate Level	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Other
TOTAL	95	23	28	10	33	1
Negative	43	12	6	9	15	1
Positive <1.0	29	8	7	1	13	
1.0-1.4	4	1	2		1	
1.5-1.9	1		1			
2.0-2.4	4	1	2		1	
2.5-2.9	3	1			2	
3.0-3.4						
3.5-3.9	1		1			
4.0 and over	10		9		1	

TABLE 66
MEDICAL EXAMINER ACTIVITIES
ACCIDENT CASES WITH ALCOHOL TESTS BY MEANS OF DEATH
VIRGINIA, 1978

Means of Death	Result Totals	Percent Positive for Alcohol								
		Neg.	Pos. <.10	.10-.14	.15-.19	.20-.24	.25-.29	.30-.34	.35-.39	.40+
TOTAL	879	206	143	113	112	108	70	58	32	37
Aircraft	13	12	1							
Animals	1		1							
Beating/blows/blunt instrument	1								1	
Bicycle	1	1								
Burns/fire	5		2		1	1	1			
Cafe coronary-food ingestion	6				1	2	3			
Drowning	58	13	18	2	12	8	3	1	1	
Electricity	5	3		1	1					
Explosion	1	1								
Exposure-heat	3			1			2			
Exposure-cold	16	2	4	2	1	1	4	2		
Falling object	11	8		2		1				
Fall	36	15	3	2	5	3	2	4		2
Gun	16	9	2	2		3				
Machinery	6	3		1				1		1
Motorcycle	30	7	8	7	5	2	1			
Motor vehicle-driver	249	51	48	35	41	44	16	10	3	1
passenger	105	25	24	20	20	8	6	2		
pedestrian	74	11	8	13	4	16	11	8		3
unknown	37	14	7	5	5	5			1	
Poisoning										
Alcohol	82	2	1		5	1	7	20	17	29
Barbiturate	1	1								
CO-motor vehicle exhaust	7		3	2		2				
other internal combustion system exhaust	9	3	4	1	1					
fire/smoke inhalation	60	4	5	11	5	7	13	8	6	1
Narcotics/abused drugs	10	4	2	3		1				
Other poisons	6	5						1		
Suffocation	3	1				1		1		
Tractor	5	2	1		1		1			
Train	9	3		2		2				
Other	10	6		1		2			2	1
Undetermined	3		1			2				

OFFICE OF HEALTH PROTECTION AND ENVIRONMENTAL MANAGEMENT

The Office of Health Protection and Environmental Management consists of the Divisions of Water Programs, Solid and Hazardous Waste Management, Health Hazards Control, and Epidemiology. Each Division contains various Bureaus which carry out specific programs designed to protect the health and environment of Virginia's citizens.

WATER PROGRAMS

WATER SUPPLY ENGINEERING

In order to carry out the provisions of the Commonwealth of Virginia's Waterworks Regulations and the State Public Water Supply Law, the Bureau of Water Supply Engineering supervises public drinking water supplies by maintaining a close liaison with local officials and operators. As a result of the Waterworks Regulations, the Bureau has instituted an ongoing program to bring all public waterworks under State operation permit. During fiscal year 1979, 395 operation permits and 118 construction permits were issued. During 1979, the Bureau initiated 775 enforcement actions which resulted from violations of conditions contained in operation permits. The enforcement actions ranged from informal hearings to the issuance of orders signed by the State Health Commissioner to formal litigation against violating waterworks owners. Bureau personnel devoted 6.86 professional man-years to waterwork enforcement actions.

The Bureau reviews and approves proposals, plans, and specifications for new waterworks or extensions or modifications of existing waterworks to insure that all facilities are designed to provide pure water. When new waterworks are proposed or major additions to existing waterworks are planned, proposals, plans, and specifications for these projects are submitted to the Bureau for review. The Bureau then makes recommendations to the State Health Commissioner for approval and issuance of permits for the projects. Also, the Bureau participates as technical consultant to the localities in the planning of new waterworks and the expansion and updating of existing waterworks facilities. During fiscal year 1979, Bureau engineers reviewed 1,189 applications, reports, proposals, and plans and specifications for waterworks improvements. Waterworks plan review accounted for 9.16 man-years.

The Bureau also performs sanitary surveys of existing waterworks. At the close of fiscal year 1979, the Bureau had under its supervision 2,069 community drinking water supplies ranging in size from small deep well systems serving the minimum number of twenty-five customers to the largest most complex municipal waterworks in the Commonwealth. During fiscal year 1979, 3,319 technical assistance contacts were made. An integral part of the surveillance program includes the monitoring of drinking water quality. Waterworks owners are required to perform regular and frequent chemical, physical, radiological, and bacteriological analyses of the water supplied to the customers. The Division of Consolidated Laboratory Services performed approximately 8,000 chemical analyses for the Bureau.

The Safe Drinking Water Act still provides a tremendous impact on the Bureau of Water Supply Engineering. The Commonwealth of Virginia is a primary agency, and as such, it is responsible for the development, administration and operation of a public water supply program which would be no less stringent than that carried out by the Federal Government. Other accomplishments of the Bureau during the past fiscal year included the initiation of a non-community waterworks strategy which will be carried out jointly with local departments. Approximately 2,732 non-community systems are presently carried on inventory. Also, the Bureau continued a Statewide training program for waterworks operators.

ACTIVITIES OF THE BUREAU OF WATER SUPPLY ENGINEERING
VIRGINIA, FISCAL YEAR 1979

<u>Projects Processed</u>	<u>Received</u>	<u>Reviewed</u>	<u>Approved</u>
Applications	196	200	168
Reports	98	82	80
Proposals	157	157	132
Plans	472	750*	750*

*Indicates processing of backlog

<u>Activities</u>	<u>Number</u>
Operation Permits issued	395
Construction Permits issued	118
Technical Assistance Contacts	3,319
Waterworks Field Investigations	2,353
Enforcement Actions	775
Chemical Analyses performed by DCLS	8,150
<u>Man-Hours* Expended in Program Areas</u>	
Project Review	16,122
Technical Services	30,888
Enforcement	12,074
Data Management	8,307
Training and Certification	16,878
Program Management and Administration	21,842
Water Resources Planning	188

*Includes regional office and central office professional and clerical time.

WASTEWATER ENGINEERING

The Department of Health, in conjunction with the State Water Control Board, regulates domestic wastewater treatment and collection systems under the State Water Control Law. Under this law the Bureau of Wastewater Engineering reviews proposals, plans, and specifications for domestic wastewater collection and treatment systems, and maintains surveillance and supervision over existing systems. In order to protect the public health, the Bureau participates in the planning of new domestic wastewater systems, and reviews and approves proposals, plans and specifications for new or existing systems to determine if they are technically adequate, and are not a hazard to the public health. Bureau staff conduct field investigations and maintain close

liaison with Federal, State and local officials as well as the wastewater system owners and operators, and consulting engineers. The Bureau also provides training for wastewater system operators and gives advice to cities, towns and counties on appropriate treatment schemes.

The Bureau currently has jurisdiction and maintains surveillance over 377 domestic wastewater treatment systems. A total of 1,303 technical services contacts were made during the past year and 155 certificates to operate were issued. Also, the Bureau reviewed 2,283 proposals, reports, plans and specifications for sewerage projects which accounted for 11.2 man-years. Bureau personnel spent 3.66 man-years on technical assistance related to wastewater and 3.90 man-years on administration of wastewater responsibilities.

ACTIVITIES OF THE BUREAU OF WASTEWATER ENGINEERING
VIRGINIA, FISCAL YEAR 1979

<u>Projects Processed</u>	<u>Received</u>	<u>Reviewed</u>	<u>Approved</u>
Proposals	300	278	270
Plans	918	1,420	966
Projects	310	334	284
Reports	176	251	177

<u>Activities</u>	<u>Number</u>
Construction Permits Issued	7
Certificates to Operate Issued	195
Technical Assistance Contacts	1,303
Field Investigations, Sewerage	3,031
Field Investigations, Marinas	17

<u>Man-Hours* Expended in Program Areas</u>	
Project Review	19,695
Technical Service	6,446
Training and Certification	4,627
Program Management and Administration	6,878

*Includes regional and central office professional staff only.

The Bureau of Wastewater Engineering has developed a program for enforcing the State Board of Health's "Rules and Regulations Governing Sanitary and Sewerage Facilities at Marinas and Other Places Where Boats are Moored," dated September 1975. Approximately 17 marina and/or associated facilities were inspected during fiscal year 1979.

The Bureau of Water Supply Engineering and the Bureau of Wastewater Engineering, in joint effort, actively support and participate in the operation of short schools for the training of water and wastewater works operators. The annual short school at Virginia Polytechnic Institute and State University is held in cooperation with the State Water Control Board and others. The advanced short school at Virginia Military Institute is a sole responsibility of the Division of Water Programs.

SHELLFISH SANITATION

The Bureau of Shellfish Sanitation exercises sanitary control over Virginia's shellfish and crab meat industries for the health protection of the consuming public. This work is carried on through inspections of processing plants, sanitary surveys of growing areas, and laboratory control of the products. The Bureau office is maintained in Richmond, with area offices and laboratories in Accomac, Norfolk, and White Stone.

There were 321 certificates issued to shellfish plants during fiscal year 1979 and 50 to crab meat processing plants. Three thousand six hundred fifty-three inspections were made at shellfish and crab meat processing plants. In addition, 336 trucks and 157 boats used in harvesting and transporting shellfish were inspected. Three thousand four hundred fifty-six "raw" and final product samples were collected from shellfish and crab meat processing plants, growing areas, and in transit during the season to assure that quality control standards were being met. Included in this number were 501 samples of shellfish from out of state, since approximately 60 percent of the shell oysters processed within Virginia during the season were imported from Maryland waters. A total of 1,820 water samples were collected and examined from shellfish and crab meat processing plants to assure a potable water supply. (See Table 67 on page 207.)

Shellfish that have been transplanted from condemned to approved waters for cleansing purposes may be marketed. There was a 12.2 percent decrease in the number of clams transplanted for a total of 13,221,939 and a 49.4 percent decrease observed in the number of bushels of oysters transplanted for a total of 8,959 bushels. The decrease in the shellfish relaying activity resulted from the depletion of resources in polluted areas and the drop in "seed" planting activity in polluted areas. Risk and loss factors currently in this phase of the industry make this practice less economically feasible. To negate these losses, the industry and the Health Department are currently exploring the feasibility of depuration plants in Virginia. Additional resources will be needed to give adequate surveillance to this phase of the industry as it develops.

Nineteen sanitary surveys and 10 reinvestigations of shellfish growing areas were made during fiscal year 1979. On these surveys, 16,813 properties were inspected for the detection of pollution that might affect water quality. Concerted efforts have been made to eliminate shoreline deficiencies found on surveys. This effort, which has been successful, needs to be maintained. The fiscal year started with an existing outstanding balance of 923 shoreline deficiencies reported to the local health departments for abatement. During the year, 671 new deficiencies were added as a result of new surveys conducted. Local health departments reported 648 deficiencies corrected, leaving an outstanding balance of 946 deficiencies. This is a balance increase of 2.49 percent. Bacteriological and hydrographic surveys were made in 110 shellfish growing areas during the year.

In order to minimize or eliminate the necessity for closure of additional shellfish growing areas, more and more time and effort are being required to evaluate the total effect on shellfish waters of various proposed sewage treatment facilities for dwellings, businesses, industries, marinas, and other development. Efforts are constantly being made to prevent additional pollution and degradation of shellfish producing waters. Four hundred seventy-three

environmental impact evaluations were made in this regard by the Bureau during the fiscal year.

During the 1979 fiscal year, 961 acres were restricted because of increased pollution hazards while approximately 149 acres of shellfish growing area were released from condemnation. The examination of 24,348 seawater samples overlying shellfish beds along with 139 shellfish samples from growing areas helped to assure the proper classification of these areas.

The kepone problem continues to have an adverse effect on the Virginia shellfish program. One thousand three hundred fifty-one oyster and crab samples were collected and/or prepared for kepone analysis by the Bureau of Shellfish Sanitation to assess any public health consideration. Considerable efforts have been and continue to be expended in this area of control at the expense and detriment of certain other portions of the program.

SOLID AND HAZARDOUS WASTE MANAGEMENT

SOLID WASTE

The State Health Department continues to be responsible for the regulation of the proper disposal of all garbage, refuse, and other solid wastes in the State. Cities and counties are responsible for providing proper disposal in accordance with regulations adopted by the State Board of Health in April 1971.

The Division provides evaluation of existing and proposed treatment and disposal sites, issues permits where appropriate, and provides for inspection of ongoing operations. The Division continues to identify unsatisfactory operations and takes necessary action to have them corrected. It investigates all cases of illegal disposal of solid and hazardous wastes and causes their cleanup and disposal, when necessary.

The State Solid Waste Management Plan has been prepared and was adopted by the Board of Health. It forms the basis for future regional and local management plans.

The 1979 session of the General Assembly recodified the Virginia Health Code. Substantial changes have been made in the portion dealing with the management of solid and hazardous wastes necessitating revision of present rules and regulations governing disposal of solid wastes. Such revision was initiated and will encompass both hazardous and nonhazardous waste management practices to include generation, transportation, storage, treatment and disposal of such wastes. Prior to publication of such regulations, disposal of hazardous wastes is being handled on the case-by-case basis under the 1971 rules and regulations.

New proposals for energy and resource recovery facilities have been reviewed by the Division.

VECTOR CONTROL

The Bureau of Vector Control continues to provide consulting and advisory support for local governments and private citizens. Activities of the 28 organized mosquito control districts are supervised by the Bureau. Bureau staff represent the Commissioner of Health on each Mosquito Control Commission and

function as chairman of each commission. Financial assistance provided to each commission by the State is also administered by the Bureau.

In addition to these supervisory and advisory functions, the Bureau provides consultation on controlling problems involving rats, mice, ticks, flies, mosquitoes, fleas and other vectors. Where necessary, the Bureau recommends the proper type of control or advises local governments in their control efforts. The Bureau also identifies specimens of other vectors sent in by local health departments and citizens, gives advice on their public health significance, and recommends control measures.

ACTIVITIES OF THE DIVISION OF SOLID AND HAZARDOUS WASTE MANAGEMENT
VIRGINIA, FISCAL YEARS 1978 AND 1979

Activity	Fiscal Year	
	1978	1979
<u>Solid Waste</u>		
Inspections and investigations	2,360	2,594
Surveys	65	72
Disposal sites evaluated	82	115
Meetings and conferences	1,945	1,489
Assistance in preparation of local ordinances	1	
Valid permits issued	13	15
Nonconforming permits issued	5	3
Dumps closed		13
Sanitary landfills started	1	2
Assistance in solving hazardous waste problems	52	403
<u>Mosquito Control</u>		
Meetings and conferences	123	116
Investigations	9	20
Surveys	4	
Identifications	2,321	2,905
<u>Rodent Control</u>		
Investigations	20	14
Meetings and conferences	15	8
Dumps poisoned	7	3
Sewers poisoned	2	2
<u>Other Vectors</u>		
Investigations	13	3
Meetings and conferences	13	7
Advice given	119	90
Identifications	44	30
<u>Training</u>		
Training courses participated in	17	25
Talks to civic clubs	3	10
Men given on-site training	61	11
Film showings	23	15
People viewing films	329	157
TV interviews	3	6

HEALTH HAZARDS CONTROL

TOURIST ESTABLISHMENT SANITATION

The travel industry in Virginia continued to increase at a marked rate. Approximately 2.5 billion dollars were expended by the traveling public in 1978 and the industry provided employment for 187,160 persons. Investment in new construction totalled \$33,917,400. The total number of approved units in transient lodging facilities was 72,640. Approved camping units numbered 39,557. There were 656 approved swimming facilities at tourist establishments.

At least four inspections of all these establishments were made during the year and minimum standards were maintained without the need of court action. Bureau personnel are responsible for the administration of pertinent health rules and regulations as embodied in Title 35, Code of Virginia. In addition to sanitation requirement considerations, close liaison was maintained with the State Fire Marshal's office in regard to fire safety and with the Virginia Uniform Building Agency. Close cooperation is also conducted with the State Highway Department relative to sign requirements on public roads.

The style of travel has shifted to some degree to more air travel and other common carriers; this is thought to be due to increasing energy costs.

The growth of the campground industry has slowed somewhat; however, the condominium type facility remains popular. There was growth in the economy budget-type motel and in the larger type convention complex, giving a wide variation in types of services offered.

Food service establishments showed dramatic growth in the limited-menu specialty type such as the hamburger specialty, like MacDonalds; the chicken specialty, like the Golden Skillet Chain; and the seafood speciality, like Captain John Silver's. The shift toward more travel by common carrier increases the necessity of added surveillance of the food service catering points. The primary function of the food consulting program in the Bureau is to evaluate the effectiveness of the food enforcement work. There are 12,500 public food service establishments in the Commonwealth, all subject to the State Restaurant Law. The food consultants of the Bureau measure the degree of compliance. All personnel involved must meet certification standards of the USPHS-FDA as being proficient in interpretation of their Recommended Code. Inspections of interstate carrier food services are done in cooperation with FDA. Bureau food consultants also make inspections of food services at public and privately owned institutions, such as mental, penal and tuberculosis institutions. The Bureau is continuing to offer food service manager certification courses which began in 1974 with FDA funding. Training and certification of an additional 125 managers was achieved during the calendar year.

During 1978, the food consultants completed 27 food shed surveys involving 563 food service establishments. They assisted in 127 food training programs with a total attendance of 3,455. Three months were spent working with local sanitarians on standardization procedures. As a result, four persons became Certified Food Sanitarians and nine persons became Standardized Food Sanitarians. Seven inspections were made at State Institutions and nine inspections were made at catering points for the Interstate Carrier Program, FDA. Ten days were spent assisting local health departments on flood clean-up programs and an environmental survey.

MILK PROGRAM

Local and State personnel rendered 28,048 services in the Milk and Frozen Dessert Program. These services include routine inspections, equipment tests and product sampling at 28 Grade A Milk Processors and 1,693 frozen dessert establishments. Routine produce sampling at retail level was done for 57 out of state Grade A Processors. State personnel involved in the State-Federal Interstate Milk Shippers program certified for interstate shipment of milk: 15 Grade A Plants, 9 cooperative milk producer suppliers, and assisted FDA with 8 check ratings.

Program	Services	Permits	Samples
Milk	7,645	57	9,366
Frozen Dessert	20,403	1,693	13,973

The decrease in the number of services rendered, as compared to 1977, is due to changes in the method of reporting the number of produce samples taken.

BEDDING AND UPHOLSTERED FURNITURE INSPECTION

This Section enforces the Bedding and Upholstered Furniture Law which requires that the contents of bedding and upholstered furniture be properly identified by a label attached to new articles and that certain articles be sterilized before resale. Manufacturers of bedding and upholstered furniture, suppliers of filling material, renovators, and reupholsterers must be licensed, and all sterilizers must have a permit in order to do business in Virginia.

ACTIVITIES OF THE BUREAU OF BEDDING AND UPHOLSTERED FURNITURE INSPECTION VIRGINIA, FISCAL YEARS 1978 AND 1979

Bedding Inspection Activities	Fiscal Year	
	1978	1979
<u>Inspections</u>		
Retail Outlets	2,340	2,715
Manufacturers	829	748
Sterilizing Plants	231	281
Others	155	102
OSHA	33	12
Condemnations: New	3,973	2,684
Used		630
Merchandise ordered out-of-state for failure to comply with the Virginia law	61	384
<u>Licenses Issued</u>		
Bedding Manufacturers	473	444
Upholstered Furniture Manufacturers	861	827
Renovators	16	15
Reupholsterers	680	684
Supply Dealers	69	80
Sterilizer Permits	145	174
Importers License	5	24
Samples Collected for Analysis	29	24

Inspectors from this section visit stores, warehouses, dealers, upholstery shops, and manufacturing plants to verify that provisions of the law are being followed.

While bedding manufacturer's licenses decreased by 29, and upholstered furniture manufacturer's decreased by 34, sterilizer permits increased by 29. It is felt that the downturn in the economy would explain this change. An increase in sterilizer permits indicates that more used bedding is being sold since these articles must be sanitized and yellow tagged before resale. A decline in new bedding and upholstered furniture licensees indicates that these in state and out-of-state manufacturers are not selling their product in Virginia since manufacturers must both register their firm and properly label articles prior to sale.

Bed pillows labeled all new down were actually found to be 60 percent duck feathers and 40 percent duck down. Bed pillows labeled all new crushed chicken feathers were found which gave off a "fowl" odor and subsequently failed to pass the Virginia Consolidated Laboratory test for cleanliness. All bed pillows were condemned, removed from the department store sales floor and returned to the out-of-state manufacturer.

"Selling off the truck sales" increased in Virginia particularly in the Bristol, Abingdon, Shenandoah and Harrisonburg areas.

Sales by Hotel and Mattress Distributors in the Northern Virginia, Roanoke, Richmond, Petersburg, and Charlottesville areas increased. These sales which are conducted on a Friday, Saturday, and Sunday in a large conveniently located motel must be monitored to assure the consumer that he is buying from a reputable licensed manufacturer and that bedding/upholstered furniture articles filling material is as stated on the label.

One inspector was certified as a Commercial Pesticide Applicator, in Category (7) Industrial, Institutional, Structural, and Health Related Pest Control.

OCCUPATIONAL HEALTH

Significant illness or death may be caused by conditions to which workers are exposed over a long period of time at their places of employment. The Bureau of Occupational Health tries to identify and bring about abatement of those conditions which might cause ill health or death.

A Federal law, PL 91-596, the Occupational Safety and Health Act of 1970, provides for enforcement of safety and health standards to assure safe and healthful working conditions. The law also provides the opportunity for states to enforce the OSHA standards if the state's enforcement level is as effective or more effective than the Federal one.

The Virginia State Plan for administering the Occupational Safety and Health Act was approved effective October 1, 1976. Since that time, the Bureau of Occupational Health has been actively involved in implementing the State Plan.

During fiscal year 1979, 190 enforcement inspections of workplaces were made. These inspections were carried out to determine if the workplaces were in compliance with Virginia Occupational Health standards. Sixty-seven inspections were made in response to complaints, and 8 were conducted as a result of work-

place accidents. One hundred-eight inspections were made either as a result of referral or because the workplaces had a high priority status on the general schedule. Seven follow-up inspections were carried out. A total of 28,000 people were employed in the plants which received enforcement inspection, and 12,500 employees in these plants were directly affected by the inspection.

ACTIVITIES OF THE BUREAU OF OCCUPATIONAL HEALTH
VIRGINIA, FISCAL YEARS 1978 AND 1979

Activities and Services	Fiscal Year	
	1978	1979
<u>Enforcement</u>		
Total enforcement inspections made	123	190
Inspections made from complaints	51	67
Inspections made from referrals and general schedule	59	108
Inspections made from accident reports	4	8
Follow-up inspections	9	7
Total employees in plants inspected	24,277	28,000
Total employees in those plants affected by inspections	10,593	12,500
<u>On-Site Consultation</u>		
Requests for consultation		
Requests handled by telephone	16	14
Requests handled by inspections	51	91
Inspections resulting in helpful recommendations to employers	48	91
Total employees protected from hazard	380	737
Total employees affected by inspections	2,104	15,153
<u>Training Programs</u>		
Speeches		
Number of events	8	10
Number of attendees	219	295
Number of contact hours	493	375
Conferences		
Number of events	32	76
Number of attendees	550	1,655
Number of contact hours	2,477	5,946
Classes		
Number of events	15	23
Number of attendees	99	51
Number of contact hours	2,545	962

Also during fiscal year 1979, 32 inspections of public workplaces were carried out by the Public Sector section of the Bureau of Occupational Health.

Another major activity of the Bureau in the implementation of the State Plan is public education concerning aspects of occupational health. During 1979, there were 110 training events carried out by the Bureau for occupational health nurses, employees and employers. These speeches, conferences, and/or

classes were attended by 2,001 people for a total of 7,283 contact hours. Some of these training events, conducted by industrial hygienists, were directed at the employer and covered topics such as "Noise" and "Ventilation." During fiscal year 1979, a special emphasis was made on educating the public concerning the health hazards created by exposure to asbestos. A significant amount of training, directed by the Occupational Health Nursing Consultant, took the form of workshops of five hour duration held in nine locations throughout the State. These workshops were attended primarily by occupational health nurses and addressed subjects pertaining to employee health, such as "Toxicity of Chemical Substances" and "Occupational Respiratory Diseases."

The Bureau also operates a separately funded On-Site Consultation Program. This program provides free consultation services to employers. Upon the request of an employer, a health consultant conducts an on-site survey of the workplace, identifies and evaluates health hazards and makes recommendations concerning the abatement of these hazards.

During fiscal year 1979, the On-Site Consultation program received 181 requests from employers. Fourteen of these requests were handled by telephone consultation, while 91 requests resulted in workplace inspections made by consultation officers. As a result of consultation efforts, 91 helpful recommendations were made to employers, 737 employees were protected from hazard, and 15,153 employees were affected by the inspections.

RADIOLOGICAL HEALTH

Results from a two year quality assurance study of dental radiography show that in over 40 percent of the cases examined, radiation exposures exceeded recommended guidelines. With the cooperation and endorsement of the State Dental Society, 302 inspections of dental X-ray equipment were performed and corrections were made to bring radiation exposures within recommended guidelines.

In order to provide more accessible radiation control services to the Tidewater area, a full-time Radiological Health component was established in the Tidewater office. This component expands the regional services previously available only to the Roanoke and Southwest Virginia area. Other areas of the State are served out of the Central Office in Richmond.

Work progressed on updating the radiation control regulations which will become effective in 1980. Regulations dealing with the transportation of hazardous radioactive materials were developed.

Also, the State Radiation Advisory Board began a study of the qualifications of X-ray operators in radiation safety. The study concluded that some type of credentialing and/or continuing education requirement was desirable. This recommendation will be passed on to the Commissioner and the Board of Health.

Increased emphasis was placed on environmental monitoring through installation of automatic sampling equipment at the Surry nuclear power plant and through increasing the number of sampling stations. Similar increases are planned for the North Anna facility.

ACTIVITIES OF THE BUREAU OF RADIOLOGICAL HEALTH
VIRGINIA, FISCAL YEARS 1978 AND 1979

Activities and Services	Fiscal Year	
	1978	1979
Activities		
Total number of contracts	691	718
Total number of surveys	355	416
Services (Surveys)		
Dental	295	302
Medical	12	32
Hospitals and Clinics	35	70
Industrial	3	3
Other	3	9
Type of Service		
Initial surveys	266	348
Periodic surveys	179	10
Follow-up	31	58
Source of Service		
Self-initiated	193	176
Requested surveys	162	240
Other Services		
Conferences	26	40
Consultations	70	58
Lectures given	8	11
Inquiries answered	209	155
Classes attended	23	96
Radioactive materials licenses written	15	36
Radioactive sample submitted for analysis/evaluated	1,324	1,405
Radioactive oven survey reports reviewed/evaluated	2,200	1,387
TLD Environmental Radiation measurements	120	108

TOXIC SUBSTANCES INFORMATION

This Bureau is charged with implementation of the Toxic Substances Information Act. The Act mandates the collection of a geographical inventory of chemicals manufactured or used in manufacturing, the evaluation of toxic effects of chemicals, and the dissemination of such information to State and local governmental agencies and to the general public.

Editing of reports, data entry, systems analysis and programming for the chemical inventory continued throughout the year. To improve the reliability of the data, a computer printout will be sent to each commercial establishment for verification and updating of reported chemical substances in the public files. Return of the printout will constitute each establishment's annual report.

The first two substances, benzene and asbestos, were approved as Class 1 Substances in principal by the State Board of Health. Documentation for specified hexavalent chromium compounds was completed, but designation was deferred until additional scientific evidence became available. Documentation for benzidine and certain benzidine derived dyes and for pentachlorophenol was being prepared at year's end.

Revision 2 of the Rules and Regulations dealing with procedures for safeguarding confidential information was issued. Work was proceeding on Revision 3 which is to include the two Class I designations, changes required by the recodification of the health laws, inclusion of material previously omitted and clarification of procedures on the basis of experience with the chemical reporting system.

During the year, 147 health hazards evaluations were made for State agencies, industry, colleges and schools, attorneys, physicians and members of the public. One hundred of these were for units of the Health Department.

EPIDEMIOLOGY

COMMUNICABLE DISEASE

Epidemiology

In 1978 reported cases of measles (rubeola) in Virginia again rose to prevaccine levels. Of the 2,837 cases identified, 65 percent were in the 5-14 year age group. Thirty-two percent of these cases had been previously immunized (15 percent at less than one year of age).

Thirteen rubeola outbreaks occurred in 1978, and accounted for 94 percent of the State's cases. The largest outbreaks occurred in Virginia Beach, Norfolk, and Franklin county, accounting for 27, 20, and 16 percent of the State's cases respectively.

Two measles deaths and two cases of measles encephalitis were reported. The deaths occurred in an unvaccinated 9 month old infant and a 13 year old child who was immunized at less than one year of age.

Fifty-one percent of the 247 cases of rubella reported in 1978 occurred in individuals in the 15-24 year age group. Outbreaks in three Virginia colleges resulted in 57 percent of the reported cases.

As would be expected, 72 percent of the 18 pertussis cases reported in 1978 were less than one year of age. Only one case had been fully immunized against pertussis.

One case of vaccine-associated poliomyelitis was identified by autopsy on a two month old infant who had received one dose of trivalent polio vaccine. The infant had a family history of immune deficiency disease.

Forty-seven percent of the 196 cases of mumps reported in 1978 were in children in the 5-9 year age group. Immunization status was unknown for most cases.

Of the 122 cases of bacterial meningitis (excluding meningococcal) investigated in 1978, 70 percent occurred in children less than five years of age. Sixteen of the 65 cases of H. influenza meningitis reported were ampicillin resistant. Of the seven H. influenza meningitis deaths for which a sensitivity was known, none were ampicillin resistant.

Meningococcal infection case numbers rose dramatically in 1978. Of the 73 cases (9 deaths) reported, 48 percent were less than five years of age (19 percent were less than one year old). The type was known for 36 of the cases: Type A - 2 cases; Type B - 17 cases; Type C - 10 cases; Type X - 6 cases; Type Y - 1 case.

Hepatitis A (Infectious) case reports continued to decline in 1978 with the fewest number of cases recorded since surveillance began in 1954. Cases ranged in age from 9 months to 81 years with age groups 20-24 years (22 percent) and 30-39 years (18 percent) predominating. One outbreak was reported in a school for the mentally handicapped, and resulted in 24 cases. Of the cases for whom specific information was available, 19 percent gave a history of contact with a hepatitis case within 2-6 months of onset of symptoms, and 11 percent had dental work during the same period. Twelve percent had consumed raw clams or oysters in the two months prior to onset.

Hepatitis B (Serum) case totals continued to climb in 1978 with the largest number of cases (331) reported since surveillance began in 1971. The predominant age group was the 20-24 year group accounting for 24 percent of the cases. Sixty-six percent of the cases were Hepatitis B surface antigen (HbsAg) positive. No outbreaks were reported. Of the cases for whom a history was available, 14 percent had known contact with a hepatitis case prior to onset of symptoms, 20 percent had a history of known or suspected parenteral drug use, 11 percent had dental work within two months of onset, and 3 percent had a history of transfusion. Of the HbsAg positive cases, 71 percent had no known or suspected history of parenteral exposure (intravenous drugs, transfusions, etc.).

As was true nationally, Salmonella typhimurium was the predominant salmonella serotype in Virginia in 1978, accounting for 51 percent of the cases. Six outbreaks were reported, the largest involving 110 National Guardsmen and their families who became ill with S. typhimurium after consuming Thanksgiving turkey that had been improperly cooked and stored.

Six cases of human illness were associated with exposure to pets (cats, dogs) infected with salmonella.

Only four cases and two carriers of typhoid fever were identified in 1978. Of the cases, three were imported and one resulted from exposure to a typhoid carrier.

Seventy-eight percent of Virginia's 142 shigellosis cases reported in 1978 were Group D, Sh. sonnei. The largest of three shigella outbreaks involved 16 participants in a day-care center.

Seven foodborne outbreaks involving 217 people were reported in 1978. Four outbreaks were due to salmonella contamination. Improper storage and/or cooking was the primary cause of most outbreaks.

The one case of botulism reported in 1978 resulted from the consumption of improperly home canned pickled beans.

Seven cases of Reye's Syndrome (4 deaths) were reported in 1978. The etiology was unknown for 5 cases, suspected to be chicken pox in 1, and influenza in 1.

In 1978, Virginia began surveillance of the Kawasaki's Disease (Mucocutaneous Lymph Node Syndrome, MLNS). Thirty-two cases were reported in children ranging in age from 4 months to 17 years. There were no deaths.

Four cases of leprosy were recorded; two cases in Vietnamese refugees, one case in a West African engineer, and one case in a Philipino seaman.

Fifty-seven percent of the 23 cases of malaria reported in 1978 were due to P. vivax and 17 percent were P. falciparum. Only 30 percent of the cases were citizens of the United States. Fifty-two percent of the cases contracted their illness in India, and 22 percent in Africa. Sixty-five percent of the cases had received no pre-exposure prophylaxis.

One case of coccidioidomycosis was diagnosed in a woman who had traveled in California prior to becoming ill.

Three cases of psittacosis occurred in Virginia in 1978. One case resulted from exposure to pigeons, one to a pet cockatiel, and one case to occupational exposure to birds in a research vivarium.

With only 5,011 cases reported, 1978 was a mild influenza year. Only two influenza virus isolations (both H1N1, resembling A/USSR/90/77) were made during the season. Four cases were serologically confirmed as A/USSR/90/77 and three cases as A/Texas/77 (H3N2).

Animal rabies case totals again decreased primarily due to a dramatic drop in reported fox rabies (none identified in 1978). Bats predominated, accounting for 8 of the 14 cases.

Only six cases of brucellosis were reported, the fewest number since 1929. All were abattoir associated and assumed or proven to be B. suis.

Of five cases of tularemia reported, only one was related to contact with a rabbit. Three cases were associated with a wood tick bite, and one with a cat bite.

Of the 111 reported cases of Rocky Mountain spotted fever for whom a history was available, 75 percent had a history of tick bite or attachment. Eighty-seven percent of the cases developed a rash and 77 percent were hospitalized. Fifty-one percent of the cases were initially diagnosed as Rocky Mountain spotted fever. Two of the three spotted fever deaths occurred in patients with no known history of a tick bite.

During 1978, there were 17 laboratory confirmed cases of Legionnaires' Disease in Virginia. All cases were sporadic except one which was associated with an outbreak in Indiana. Three of the cases were fatal.

Immunization

The Federally funded Virginia Immunization Activities Project continued its efforts during 1978 to meet the goals of the National and State Immunization Initiative: to increase immunization levels of all children under age 15 to above 90 percent by October 1979, and to develop a system to insure that all newborns are provided with an opportunity to receive immunizations at the recommended times.

Through the efforts of Immunization Activities and the local health departments, immunization levels in the State increased in 1978. The Survey of Immunization Levels of Two-Year-Old Children, conducted in July, showed that 98 percent of

these children received at least one immunization, and 61.4 percent had received the basic series of immunizations by the age of two years, an increase of 4 percent over 1977. Immunization levels for the individual vaccines were reported as follows: measles, 81.0 percent; rubella, 75.6 percent; polio, 73.8 percent; DPT, 80.2 percent. The immunization levels of children in licensed child care centers were assessed for the first time in 1978. A total of 85.5 percent of children two through five years of age were adequately immunized. The School Enterers Survey showed the following immunization levels for children who entered school at the beginning of the 1978-79 School Year: measles, 94.7 percent; rubella, 94.7 percent; polio, 93.5 percent; DPT, 94.0 percent. The School Enterers Survey figures increased approximately 4 percent for each vaccine in 1978 compared to 1977.

Immunization Activities is part of the Division of Epidemiology and the two offices work together in the prevention and surveillance of communicable diseases.

Vaccines are supplied to local health departments through the Bureau of Biologics and Drugs. Vaccines administered in health department clinics during fiscal year 1978-1979 are shown in the table below.

VACCINES ADMINISTERED IN LOCAL HEALTH DEPARTMENT CLINICS
VIRGINIA, FISCAL YEAR 1979

Vaccine	Total Doses
Tetanus	510
Tetanus-Diphtheria (Td)	18,349
Diphtheria-Tetanus-Pertussis (DTP)	83,838
Measles	2,145
Rubella	1,160
Mumps	3,276
Measles/Rubella (M-R)	4,625
Measles/Mumps/Rubella (M-M-R)	24,526
Oral Polio (TOPV)	92,788

In addition, approximately 50,000 doses of measles vaccine were administered in several outbreak control programs during 1978.

Venereal Disease Control

During fiscal year 1979, a total of 1,624 cases of syphilis were reported in Virginia: 501 cases of primary and secondary syphilis, 443 cases of early latent syphilis, and 680 cases of other syphilis. Reported cases of syphilis in 1979 reflect an 8.6 percent decrease (152 cases) from the 1,776 cases of syphilis reported in 1978. This decrease in total syphilis morbidity can be attributed to the decrease in late and late latent syphilis morbidity. During fiscal year 1979, primary and secondary syphilis showed a 1.2 percent decrease (from 507 cases in 1978 to 501 in 1979), and early latent syphilis showed a 19.4 percent increase (from 371 cases in 1978 to 443 in 1979), while late and late latent syphilis reflected a 24.3 percent decrease (from 898 cases in 1978 to 680 in 1979).

During fiscal year 1979, there were 24,362 cases of gonorrhea reported in Virginia, a 0.6 percent decrease over the 24,511 cases reported in fiscal year 1978.

CASES OF SYPHILIS AND GONORRHEA REPORTED FOR THE FIRST TIME
IN THE STATE BY CASE AND RATE PER 100,000 ESTIMATED POPULATION
VIRGINIA, FISCAL YEARS 1969 - 1979

Fiscal Year	Syphilis Total		Gonorrhea Total	
	Cases	Rate	Cases	Rate
1969	1,414	30.1	11,972	255.5
1970	1,526	31.9	13,562	283.3
1971	1,920	41.2	15,391	329.9
1972	1,971	41.8	15,216	322.8
1973	2,424	52.1	19,282	414.8
1974	2,373	49.8	20,106	422.0
1975	2,196	45.6	22,640	470.6
1976	2,047	41.7	25,022	510.7
1977	2,059	41.2	23,882	477.6
1978	1,776	35.5	24,511	490.2
1979	1,624	32.5	24,362	487.2

Five independent cities continue to account for 50 percent of the State's venereal disease morbidity: Richmond (4,431 cases), Norfolk (4,028 cases), Portsmouth (2,098 cases), Newport News (1,420 cases), and Alexandria (1,087 cases). Data by planning district and city/county of residence for calendar year 1978 are shown in Table 73 on page 214.

GONORRHEA SCREENING CULTURE RESULTS FOR FEMALES
BY SOURCE OF TEST, VIRGINIA, FISCAL YEAR 1979

Source of Test	Number Tested	Number Positive	Percent Positive
Total - All Clinics	233,373	10,430	4.5
Non-VD Clinics	212,959	6,478	3.0
Health Department-Non-VD	111,871	3,431	3.1
Hospital Out-Patients	13,363	702	5.3
Hospital In-Patients	53		
Community Health Centers	1,397	48	3.4
Private Physicians	78,011	2,153	2.8
Other	8,264	144	1.7
VD Clinics	20,414	3,952	19.4

A total of 233,373 women were cultured for gonorrhea during fiscal year 1979, with a positivity rate of 4.5 percent (10,430 positive cultures). This positivity rate reflects a slight decrease when compared to the 4.7 percent positivity rate of 1978. Emphasis will continue to be placed on rescreening and increasing the rate of gonorrhea patients returning for a test-of-cure. These activities are required in order to determine effective treatment and to locate patients with repeat infections.

During fiscal year 1979, 4,153 persons with a positive serologic test for syphilis required field follow-up. Of these, 923 individuals were brought to treatment for syphilis, including 257 cases of primary and secondary syphilis.

EPIDEMIOLOGIC ACTIVITY ON PRIMARY AND SECONDARY SYPHILIS
BY REPORTING SOURCE, FISCAL YEARS 1978 AND 1979

Activities	Reporting Source					
	1978			1979		
	Total	Public	Private	Total	Public	Private
Interviewing						
Patients interviewed	487	368	119	493	347	146
Contacts obtained	1,391	1,138	253	1,406	1,047	359
Contact index	2.86	3.09	2.13	2.85	3.02	2.46
Contact Investigations						
Contacts examined	1,176	953	223	1,171	863	308
Brought to treatment	142	119	23	139	108	31
Prophylactic treatment	531	437	94	499	376	123
Not infected	346	267	79	309	197	112
All other dispositions	157	130	27	224	182	42

TUBERCULOSIS CONTROL

The State Bureau of Tuberculosis Control has the official responsibility for the surveillance of treatment of TB patients in Virginia. The Bureau assists local health departments and private doctors by providing specialized medical, X-ray, investigative, nursing, and statistical services. Bureau clinicians provide consultation regularly through forty-eight regional chest clinics Statewide.

During 1978, in Virginia, there were 722 new cases reported, with a case rate of 14.0 per 100,000 estimated population. This represents a continued decrease in both number of cases and the rate -- 742 cases in 1977 with a rate of 14.5. Virginia's rate ranks eighteenth in the country. Although the Virginia rate is above the National rate of 13.1, this gap is narrowing.

NEWLY REPORTED TUBERCULOSIS CASES BY SOURCE OF DEFINITIVE DIAGNOSIS
VIRGINIA, 1977 AND 1978

Source of Definitive Diagnosis	Total	
	1977	1978
All Sources	<u>742</u>	<u>722</u>
Private Physicians	223	220
Blue Ridge Hospital	74	65
General Hospitals	203	202
Chest Clinics	140	129
Veterans Admin. Med. Centers	66	64
Mental or Penal Hospitals	10	7
Death Certificates	12	11
Other	14	24

Although the nonwhite segment of Virginia's estimated population is 18 percent, nonwhites accounted for 52.2 percent of the newly reported cases. The nonwhite rate was 41.8 versus 7.7 for whites.

NEWLY REPORTED TUBERCULOSIS CASES BY RACE AND SEX
VIRGINIA, 1978

Race	Total	Male	Female
TOTAL	722	454	268
Black	345	224	121
White	324	203	121
Asian	35	19	16
Other	18	8	10

Males continue to be involved in the majority of cases (62.9 percent). Over two-thirds (68.0 percent) of the new cases were reported for persons 45 years of age or older. Cases among children under 15 years of age increased from 22 in 1977 to 28 in 1978.

NEWLY REPORTED TUBERCULOSIS CASES BY AGE
VIRGINIA, 1978

Total	0-4	5-14	15-24	25-44	45-64	65+
722	14	14	40	163	240	251

Over one-third of the new cases were reported for residents of five areas of the State: Norfolk (66 cases), Richmond city (63 cases), Fairfax county (45 cases), Roanoke city (30 cases), and Newport News (30 cases). Data on total cases under supervision and newly reported cases by city or county of residence are given in Table 74 on page 216.

CHRONIC DISEASE CONTROL

Cervical Cancer

Cervical and/or uterine cancer is one of the most common sites for cancer in women of all ages.

During fiscal year 1979, approximately 1,100 women in Virginia developed uterine cancer and 233 women died from the disease. Death from uterine cancer could be virtually eliminated if every sexually mature woman would have a gynecologic exam including a pap smear at yearly intervals. Early detection of precancerous conditions and prompt medical care makes treatment much more successful.

The pap smear test is offered in local health department family planning, maternity and gynecology clinics. During the first half of fiscal year 1979, the State funded program administered contractual arrangements with three regional laboratories to process pap smears at a rate of \$1.85 per case. In January 1979, the competitive bidding process for the provision of laboratory screening services resulted in the selection of a single contract laboratory to process pap smears at a rate of \$1.52 per case. During fiscal year 1979, the program funded the processing of 121,906 pap smears at a total cost of \$206,595.91. Of the total cases screened 2,335 cases were identified as moderate to severe dysplasia and 139 cases were identified as positive, including carcinoma-in-situ.

To insure quality performance of the laboratories, selected abnormal slides are exchanged among pathologists at participating laboratories for re-screening. The quality control program was expanded to include a 10 percent random selection of the total cases for re-examination by another laboratory.

With continued savings generated through the competitive bidding process, plans are being made to expand the services offered through local health department clinics to include definitive diagnostic tests such as colposcopy directed cervical biopsies for patients with abnormal pap smear reports.

Hypertension

During the past year, the Virginia High Blood Pressure Control Program has been characterized by three principal activities: (1) development of a model hypertension compliance clinic for use by local health departments across the State, (2) administration of a Statewide contract with the Virginia Heart Association to conduct a targeted screening effort to teach the State's unaware hypertensive population, and (3) conducting professional education seminars on "Hypertension Control."

From the inception of the Hypertension Program, the patient's adherence to prescribed therapy has been one of the primary goals. A review of existing services available to hypertensive patients and their physicians showed a minimum number of sites where the aware hypertensive could go to seek counseling and monitoring or where the private physician could refer newly diagnosed hypertensives for monitoring and follow-up during the first crucial months of therapy.

Three local health districts were selected as demonstration sites for establishment of model high blood pressure compliance clinics. The Thomas Jefferson Health District (six localities) was selected as a health district serving a predominately rural population. Care is provided by the patient's physician under a joint management program with the public health nurse providing the monitoring and follow-up. The Central Virginia Health District (six localities) serves a mixed urban-rural population. Treatment is provided by a physician on health department staff adhering to the "stepped care" approach. The Tidewater Health District (five localities) serves a large urban population. Treatment is provided by private physicians rotating through a general medical clinic with the public health nurse providing follow-up services through her own clinic. The target group of these clinics are aware hypertensives, those who are not treating their blood pressure at all, those who are treating it inadequately, those who have just commenced therapy, and those who are borderline hypertensives.

Although these clinics have been operational less than a year, the rate of blood pressure control (a blood pressure reading less than 160/95 mm hg) are as follows: Tidewater - 41 percent controlled, Central Virginia - 76 percent controlled, and 134 patients are being monitored by the Thomas Jefferson Health District.

The Hypertension Program has also distributed over \$20,000 worth of blood pressure equipment to enable local health departments to take blood pressures on every clinic visit. Instructions and materials for calibration of aneroid and mercury equipment have been distributed, and in many instances, equipment is being tested for the first time since its purchase. Overall, a 36 percent increase in clinic visits for hypertension (13,159) has been recorded, while

the number of new patients served (2,705) has increased by 68 percent over the preceding year (demonstration projects are not included in these figures).

To identify the unaware hypertensives, a targeted screening approach directed towards minority and industrial populations has been undertaken through a contract with the American Heart Association/Virginia Affiliate. Between October and September, 28,833 persons were screened for hypertension with 2,086 referred for further diagnostic evaluation by their private physician. Of the 225 screenings conducted by the American Heart Association/Virginia Affiliate under this program, 47 screenings (11 industrial, 36 minority) were "targeted" towards high-risk populations (22.4 percent of the total population screened were minorities and 43.5 percent of the total population screened were males).

NUMBER SCREENED FOR HYPERTENSION IN THE
TARGETED SCREENING APPROACH

Race/Sex	Number Screened	Number Referred
TOTAL	28,833	2,086
White Male	9,849	747
White Female	12,318	609
Black Male	2,691	333
Black Female	3,761	387
Other	214	10

Virginia Tumor Registry

One of the most important aspects of the care of cancer patients is the necessity to follow such cases for life. Many persons in Virginia involved in the management of these patients have seen the need for a Statewide cancer registry, not only to aid in obtaining this lifetime follow-up, but also to aid in the planning of a comprehensive cancer program and education of medical personnel.

For a number of years, certain individual hospitals operated excellent cancer registries for their own hospital patients, and attempts were made to develop a coordinated Statewide reporting system. The culmination of many months of work and planning was the development of the Virginia Tumor Registry, established in 1970 by the Virginia Regional Medical Program. The program was transferred to the Health Department in July 1976, and it is now located in the Division of Epidemiology.

The Virginia Tumor Registry tries to improve the quality of care of cancer patients through various means available to the Registry: (1) assist in collection and storage of uniform data from the member hospitals, (2) aid in long term follow-up of cancer patients, (3) provide reporting of accumulated data to the individual hospitals and physicians, (4) stimulate evaluation of this information so that it may delineate the needs for education of the public and to enable health personnel to improve cancer diagnosis and treatment, and (5) provide data for those interested in clinical cancer research.

Several means are used to obtain quality information and uniform reporting. Abstract forms together with follow-up forms and handbooks provide detailed guidelines by which hospital registrars report the information. To implement these guidelines, the Central Registry has provided frequent on-site visits to local registries, periodic educational workshops for registrars, readily available consultation, and editing of abstracts. A fine spirit of cooperation has developed between the staffs of the participating hospital registries and the Central Registry which has resulted in a high quality of reporting.

At present there are 23 hospitals participating in the Virginia Tumor Registry with 38,000 cases on file. The most significant request received was on mesotheliomas in the Tidewater area and these data are now under further investigation by the National Cancer Institute.

KEPONE STUDIES

Kepone has greatly affected the environment of the Commonwealth and the lives of Virginians. However, through funds made available as a special appropriation by the Governor, and through a grant from the Virginia Environmental Endowment Fund, studies have been initiated to determine the health effects of Kepone.

Consultation with the Johns Hopkins University School of Hygiene and Public Health, made possible through the grant with the Virginia Environmental Endowment Fund, has resulted in a preliminary study of watermen with a dietary exposure to Kepone and plans for additional medical studies of persons with an occupational exposure to the pesticide.

It is expected that these additional medical studies, which will be completed within the next few years, will provide the necessary scientific data for a re-evaluation of the existing ban on fishing and crabbing in the James River.

TABLE 67 - ACTIVITIES FOR THE BUREAU OF SHELLFISH SANITATION, VIRGINIA, FISCAL YEARS 1978 AND 1979

Activity	Fiscal Year	
	1978	1979
SHELLFISH		
<u>Certificates Issued to Dealers to:</u>		
Operate oyster and clam shucking plants	153	163
Operate plants for repacking shucked shellfish	70	74
Ship shellstock	78	81
Reship shellfish packed by certified dealers	2	3
<u>Certificates Revoked Because of Deficiencies</u>	-	-
<u>Administrative Hearing Relative to Continued Certification</u>	2	-
<u>Inspections</u>		
Shucking and repacking plants	2,630	2,549
Shellstock and reshipping plants	524	579
Mechanical shucking plants	52	37
Trucks	263	336
Boats	223	157
<u>Bacteriological Samples</u>		
Water supply in plants	1,471	1,465
Shellfish collected at plants	2,107	2,004
Swab and rinse tests to determine effectiveness of sterilizing procedures ..	95	211
Water overlying or near growing areas	23,671	24,348
Shellfish taken from growing area	71	139
Mechanical oyster shucking process	29	11
Shellfish collected in transit	48	58
Drinking water samples examined for other agencies	1,716	612
Depuration: Process water	-	92
Shellstock (clams)	-	47
Other	27	24
<u>Samples Collected for Radiological Examination</u>		
Shellfish, water overlying and bottom sediment from growing areas	85	103
<u>Samples Collected for Pesticide Examination</u>		
Shellfish and water overlying growing areas	36	36
<u>Samples Collected for Heavy Metals Examination</u>		
Shellfish and water overlying growing areas	117	113
<u>Reports Made to State of Origin on Results of Bacteriological Examination of Out-of-State Shellstock</u>	452	501
<u>Permits for Direct Marketing of Shellfish After Having Been Transplanted from Condemned to Approved Areas</u>		
Permits Issued	101	104
Oysters, bushels	17,736	8,959
Clams, count	15,046,368	13,221,939
<u>Permits Issued to Dealers to Float Shellfish in Approved Waters</u>	30	28
<u>Sanitary Survey of Growing Areas</u>		
Shoreline		
Areas surveyed	14	19
Surveyed areas reinvestigated	8	10
Homes, business places, etc. inspected	13,792	16,813
Bacteriological and hydrographic areas examined	110	110
<u>Classification of Growing Areas</u>		
Condemned for shellfishing	1	-
Total acres (approximate)	106	-
Released from condemnation	2	-
Total acres (approximate)	77	-
Condemnation revised	21	6
Total acres condemned (approximate)	2,323	961
Total acres released (approximate)	4,776	149
Conditionally approved	1	-
Total acres (approximate)	1,583	-
Seasonally condemned (Including marinas)	1	8
Total acres (approximate)	24	667
<u>Shellfish Environmental Impact Evaluations</u>	476	473
CRAB MEAT		
<u>Certificates Issued to Dealers to Operate Picking and Packing Plants</u>	46	50
<u>Certificates Revoked Because of Deficiencies</u>	-	-
<u>Administrative Hearing Relative to Continued Certification</u>	-	-
<u>Inspections at Plants</u>	721	488
<u>Bacteriological Samples</u>		
Water supply in plants	286	355
Crab meat collected at plants	1,408	1,226
Swab and rinse tests to determine effectiveness of sterilizing procedures ..	63	66
Mechanical crab meat picking process	19	18
Other	6	-
KEPONE RELATED ACTIVITIES		
<u>Shellfish and Crab Samples Collected and/or Prepared for Kepone Analysis</u> ...	792	1,351
<u>Sediment Samples Collected</u>	-	-

TABLE 68
VISITS BY ENVIRONMENTAL HEALTH SANITARIANS ACCORDING TO TYPE OF ESTABLISHMENT
VIRGINIA, CALENDAR YEARS 1977 AND 1978

Type of Establishment	Visits		Difference	Percent Change
	1977	1978		
ALL ESTABLISHMENTS	706,896	671,699	-35,197	-5.0
Food	107,258	102,566	-4,692	-4.4
Service Station	7,323	6,523	-800	-10.9
Trailer Camp	11,561	11,625	64	0.6
Itinerant Trailer	426	500	74	17.4
Ice Cream and Pasteurization Plant	1,922	2,031	109	5.7
Counter Freezer	15,351	14,285	-1,066	-6.9
Milk Distribution Station	400	382	-18	-4.5
Milk Delivery Truck	735	710	-25	-3.4
Summer Camp	766	735	-31	-4.0
Child Care Institution	3,423	3,688	265	7.7
School - Private and Public	17,018	14,321	-2,697	-15.8
Nursing Home	613	550	-63	-10.3
Home for the Aged	1,358	1,408	50	3.7
Swimming Pool or Beach	8,037	7,337	-700	-8.7
Dwelling Unit - Dwelling	107,524	97,232	-10,292	-9.6
Individual Homesite	294,697	280,167	-14,530	-4.9
Subdivision	9,486	8,671	-815	-8.6
Commercial Establishment (not shown elsewhere)	27,012	25,612	-1,400	-5.2
Migrant Labor Camp	1,565	1,884	319	20.4
Barber and Hairdressing Establishments	14,960	15,414	454	3.0
Tourist Establishment	566	412	-154	-27.2
Campgrounds	814	701	-113	-13.9
All Other Establishments	74,081	74,942	861	1.2

TABLE 69
SUMMARY OF SERVICES PERFORMED BY THE ENVIRONMENTAL HEALTH SANITARIAN IN ENVIRONMENTAL PROGRAMS
VIRGINIA, CALENDAR YEAR 1978

Type of Service	Total	Sewage	Water	Food	Milk and Counter Freezers	Pest Control	Solid Waste	Weeds	Housing	Rad. Health	Air Pollution	Swimming Facilities	Rabies	Plumbing	All Others
TOTAL	904,284	252,452	89,571	132,077	28,095	37,463	88,394	28,156	101,350	2,181	7,681	9,935	28,247	4,793	98,889
Approve	35,159	29,808	5,351												
Quarantine	7,035														
Units in Violation	82,105														
Units not in Violation	38,154														
Units Corrected	57,544	4,252													
Equipment Testing	4,648														
Complaint Investigation	70,397	9,046	1,089	2,823	3,909	7,042	24,375	8,550	41,181						
Lot Rejection	5,091	5,091			127	2,877	9,077	1,748	23,902						
Permit Issued	62,657	41,786	6,217	13,991		7,530	22,377	6,956	15,552						
Permit Revoked	431			431											
Sample	57,622	2,148	37,927		179			6,520	11,623	739					
Soil Study	66,550	66,550			10,205										
Other	416,891	93,771	38,987	114,832	13,675	4,563	11,409	4,382	9,052	1,442	2,701	7,118	14,820	1,210	98,889

TABLE 70
REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
VIRGINIA, 1978

Planning District/ City or County	Amebiasis	Aseptic Meningitis	Brucellosis	Chickenpox	Hepatitis			Malaria	Measles (Rubella)	Meningococcal Infections	Mumps	Pertussis (Whooping Cough)	Rubella (German Measles)	Salmonellosis	Shigellosis	Tetanus	Tularemia	Typhoid Fever	Typhus (Rocky Mountain Spotted Fever)
					Type A	Type B	Type Unspecified												
STATE OF VIRGINIA	35	193	6	1,076	272	331	166	23	2,837	73	196	18	247	990	142	1	5	4	111
<u>District 1</u>		3			15	1	3				2		1	10					
Lee		1																	
Scott		2					1				1			3					
Wise					15	1	2				1		1	7					
Norton*																			
<u>District 2</u>		2		71	8	4	1		34	2		1		29					
Buchanan				3	5		1		32	1				2					
Dickenson		1				1								1					
Russell		1			2				1					1					
Tazewell				68	1	3			1	1		1		25					
<u>District 3</u>		4		1	2	2	6			2				20	1				1
Bland							1												
Carroll				1	1	1				1				1					1
Grayson		1			1	1	1			1				10					
Smyth		1					2							8					
Washington		1			1		1			1				11	1				
Wythe		1																	
Bristol*						1	1												
Galax*																			
<u>District 4</u>				2	1	2	2		2	2	4		11	2					2
Elroyd																			
Giles						2			2					1					
Montgomery							2		1	2	1		11	1					2
Pulaski				2	1	1	1		1	1	3								
Radford*																			
<u>District 5</u>	1	25		5	10	10	10		14	2	13	1	5	24	2	1			5
Alleghany				1	2	1	1		1		4			1					
Botetourt		5		1	1	1	1			1			1						1
Craig		3			1	1			5					2					
Roanoke	1	5		1	3	2	2				4			12	1	1			3
Clifton Forge*																			
Covington*																			
Roanoke City		12		2	4	6	6		8	1	5	1	4	9	2				1
Salem*																			
<u>District 6</u>	1	5		13	2	1	2	8	4	1	1		3	20	1				3
Augusta		1		2	1	1	2	8	1	1	1		1	14	1				1
Bath				1															
Highland	1																		
Rockbridge					1									2					1
Rockingham		2		10			1		3	1			2	14					1
Buena Vista*																			
Harrisonburg*																			
Lexington*																			
Staunton*																			
Waynesboro*																			
<u>District 7</u>		10		4	2	2	5		1	2				22	17				2
Clarke		1			1									3					
Frederick		6			7	2	3			2				12	17				5
Page				2	1									5					2
Shenandoah		3												9					1
Warren				2			2		1					3					1
Winchester*																			
<u>District 8</u>	6	28		236	96	109	38	12	24	2	26	4	19	153	35		2		23
Arlington	1	2		9	9	23	3		5		2		9	16	7				
Fairfax	4	20		32	65	49	12	9	63	5	1	3	4	89	6		1		14
Loudoun	1	2		2		1	1							4					
Prince William		9		13	15	21	14	1	4	1	6		1	27	9				6
Alexandria		5		180	7	15	8	2	2	1	17	1	5	17	13		2		3
Fairfax City*																			
Falls Church*																			
Manassas*																			
Manassas Park*																			
<u>District 9</u>		4		49	5	3	2		16	4	5		4	18	2		1		5
Culpeper				9	3	2	1		3	2			1	2					1
Fauquier				40	2	1			13	1	5		2	11					1
Madison		1												1					1
Orange		3					1			1				4	3				2
Rappahannock																			
<u>District 10</u>	2	4		28	3	5	1	2	4	3	6	1	1	24	20				2
Albemarle		1		9	1	3							1	1	1				3
Fluvanna														2					1
Greene		1																	
Louisa	1	2		1	1		1		1	1				1					2
Nelson														1					1
Charlottesville	1			18		2		1	3	2	6	1		20	18				

*Included with surrounding county.

(continued)

TABLE 70
REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
VIRGINIA, 1978 (continued)

Planning District/ City or County	Amebiasis	Aseptic Meningitis	Brucellosis	Chickenpox	Hepatitis			Malaria	Measles (Rubeola)	Meningococcal Infections	Mumps	Pertussis (Whooping Cough)	Rubella (German Measles)	Salmonellosis	Shigellosis	Tetanus	Tularemia	Typhoid Fever	Typhus (Rocky Mountain Spotted Fever)
					Type A	Type B	Type Unspecified												
STATE OF VIRGINIA	35	193	6	1,076	272	331	166	23	2,837	73	196	18	247	990	142	1	5	4	111
<u>District 11</u>	15	2		33	2	8	2		5	2	6	2	4	23	1		1		10
Amherst	15			5		2			1					2					1
Appomattox		1		4	1		1				1	1	1						
Bedford				6	1	2	1		2	1				7					6
Campbell				1					2	1				1					2
Bedford City*															1				
Lynchburg		1		17		4					5	1	3	13			1		1
<u>District 12</u>		2		10	16	1	4		496	2	10	1	4	28	2				10
Franklin		2			1		1		459	1	5		1	2					2
Henry					9	1			30	3	4			3					1
Patrick					2								1	1					
Pittsylvania				2	2		2		6	2		1	1	8	2				1
Danville				8	2		1		1	1	1		2	14					2
Martinsville*																			
<u>District 13</u>		1			1	1						1	2	15					1
Brunswick														5					1
Halifax														9					1
Mecklenburg		1			1	1						1	2	1					2
South Boston*							2												
<u>District 14</u>						1	1			1				20					1
Amelia							1							3					
Buckingham														5					1
Charlotte														1					
Cumberland										1				1					
Lunenburg							1							1					
Nottoway														5					
Prince Edward						1								4					
<u>District 15</u>	1	29		146	39	74	24		9	2	26	3	6	207	2		1	1	14
Charles City Co.				7										8					
Chesterfield	1	9		14	5	4	8		2	1			1	12	1				4
Goochland						1	1				1								
Hanover		3		1	1	2			2				1	13	2	1	1		1
Henrico		5		16	4	6	6		1		1		2	17					3
New Kent		1			1							1		1					1
Powhatan		2				3	1							4					1
Richmond City		9		108	28	58	8		4	1	74	2	2	152	4				4
<u>District 16</u>		2		1	4	5	2			2	1		1	48	1				2
Caroline						1								5					1
King George				1									1	2					
Spotsylvania					1		1							5					1
Stafford					1	3								9					
Fredericksburg		2			2	1	1			2				27	1				
<u>District 17</u>		1		24		2					12			6			1		
Lancaster				20		1								2					
Northumberland						1										1			
Richmond		1												3					
Westmoreland				4							12			1					
<u>District 18</u>		2		2	3	1	2		4	1	1		1	8					6
Essex				1	2		1		2										2
Gloucester						1				1				3					
King and Queen				1										1					
King William		1																	3
Mathews		1							2					1					
Middlesex					1						1			3					1
<u>District 19</u>	1	1		2	5	9	10		63	4	1	1		45	6				6
Dinwiddie				1	1	2			12					4					1
Greensville														3					5
Prince George						3	1			11	3			3	6				
Surry				1						3									
Sussex									16					4					1
Colonial Heights*																			
Emporia*					1	1	3							5					
Hopewell					2	3	6							26					
Petersburg	1	1		5					21	1	1	1							1
<u>District 20</u>	6	43	6	394	40	75	21	1	2,042	14	27	1	57	145	23	1			2
Isle of Wight		1	6	1	2				1					10					2
Southampton	1	1				3	1				1			14					
Chesapeake	2	5		4	2	7	3		159	1	1		2	5	4				
Franklin City*																			
Norfolk		17		36	19	35	4	1	567	10	5		23	68	13				
Portsmouth		6		288	6	12	3		403	1	11	1	14	20	3	1			
Suffolk		3		12	2	3			158		2			4	2				
Virginia Beach	3	10		53	9	15	10		754	2	7		18	24	1				

*Included with surrounding county.

(continued)

TABLE 70
REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLANNING DISTRICT AND CITY OR COUNTY OR RESIDENCE
VIRGINIA, 1978 (continued)

Planning District/ City or County	Amebiasis	Aseptic Meningitis	Brucellosis	Chickenpox	Hepatitis			Malaria	Measles (Rubeola)	Meningococcal Infections	Mumps	Pertussis (Whooping Cough)	Rubella (German Measles)	Salmonellosis	Shigellosis	Tetanus	Tularemia	Typhoid Fever	Typhus (Rocky Mountain Spotted Fever)
					Type A	Type B	Type Unspecified												
STATE OF VIRGINIA	35	193	6	1,076	272	331	166	23	2,837	73	196	18	247	990	142	1	5	4	111
District 21	1	12		46	10	13	25		41	11	5	2	128	52	1				2
James City Co.					2	3			1		2		127	9					
York		1					1		1	1	1			3					1
Hampton	1	4		15	3	5	12		24	3		1	1						
Newport News		7		31	5	5	12		15	7	2	1		32	1				1
Poquoson*																			
Williamsburg*																			
District 22	1	3		4			1		27	1				41	21				1
Accomack		3					1		1	1				25	19				
Northampton	1			4					26					16	2				1

*Included with surrounding county.

TABLE 71
REPORTED CASES OF SPECIFIED NOTIFIABLE DISEASES
VIRGINIA, AVERAGE 1973-1977, 1977 and 1978

Disease	Average 1973-1977	1977	1978
Preventable by Immunization			
Congenital Rubella Syndrome		0	1
Diphtheria		0	0
Measles (Rubeola)	823	2,774	2,837
Mumps	567	129	196
Poliomyelitis		0	1
Pertussis	21	25	18
Rubella	354	585	247
Tetanus	2	1	1
Central Nervous System Diseases			
Aseptic Meningitis	120	202	193
Encephalitis, primary Infectious	24	31	34
Encephalitis, post Infectious	*	6	10
Meningococcal Infections	34	28	60
Other Bacterial Meningitis	92	135	122
Gastroenteric Diseases			
Hepatitis A (Infectious)	449	345	272
Hepatitis B (Serum)	196	285	331
Hepatitis, unspecified viral	*	174	166
Salmonellosis	701	806	990
Shigellosis	152	78	142
Typhoid Fever	6	10	4
Zoonoses			
Brucellosis	31	37	6
Trichinosis	3	7	0
Tularemia	5	3	5
Rocky Mountain spotted fever	111	154	111
Rabies in animals	77	5	14
Miscellaneous Diseases			
Influenza	9,843	2,384	5,011
Malaria	11	22	23
Non-CNS Meningococcal Infections	**	11	13

*Began recording in 1974

**Began recording in 1975

TABLE 72
REPORTED CASES AND DEATHS OF CERTAIN COMMUNICABLE DISEASES
WITH CASE RATES PER 100,000 ESTIMATED POPULATION
VIRGINIA, 1969-1978

Year	AMEBIASIS			BRUCELLOSIS			CHICKENPOX		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1969	42	0.9	4	61	1.3	0	N.A.	N.A.	0
1970	95	2.0	0	26	0.6	1	N.A.	N.A.	1
1971	172	3.6	0	17	0.4	0	N.A.	N.A.	1
1972	191	4.0	0	30	0.6	0	1,020	21.4	2
1973	87	1.8	0	10	0.2	0	1,367	28.4	0
1974	179	3.6	0	27	0.6	0	669	13.6	2
1975	99	2.0	0	52	1.0	0	1,155	23.3	3
1976	97	1.9	0	28	0.6	0	1,146	22.8	3
1977	73	1.4	1	37	0.7	0	784	15.3	0
1978	35	0.7	0	6	0.1	0	1,076	20.9	5

Year	DIPHTHERIA			HEPATITIS***			RUBELLA		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1969	0	0.0	0	457	9.6	N.A.	1,744	36.5	1
1970	1	*	0	1,516	32.5	N.A.	782	16.8	0
1971	0	0.0	0	1,639	34.8	N.A.	215	4.6	0
1972	0	0.0	0	1,185	24.9	N.A.	67	1.4	0
1973	1	*	0	736	15.3	N.A.	547	11.4	0
1974	0	0.0	0	823	16.8	N.A.	67	1.4	0
1975	0	0.0	0	845	17.0	N.A.	326	6.6	0
1976	0	0.0	0	743	14.8	N.A.	247	4.9	0
1977	0	0.0	0	803	15.6	N.A.	585	11.4	2
1978	0	0.0	0	769	14.9	N.A.	247	4.8	0

Year	RUBEOLA			MENINGOCOCCAL INFECTIONS			MENINGITIS (ASEPTIC)		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1969	811	17.0	4	62	1.3	18	31	0.6	N.A.
1970	2,335	50.0	2	50	1.1	10	235	5.0	N.A.
1971	1,628	34.5	4	51	1.1	5	69	1.5	N.A.
1972	73	1.5	2	45	0.9	8	208	4.4	N.A.
1973	428	8.9	1	49	1.0	7	162	3.4	N.A.
1974	36	0.7	0	43	0.9	7	63	1.3	N.A.
1975	35	0.7	0	24	0.5	6	116	2.3	N.A.
1976	844	16.8	0	44	0.9	5	53	1.1	N.A.
1977	2,774	54.0	0	39	0.8	5	202	3.9	N.A.
1978	2,837	55.1	1	73	1.4	9	193	3.7	N.A.

N.A. = Not available

* Less than 0.05

***Cases include serum hepatitis

TABLE 72
REPORTED CASES AND DEATHS OF CERTAIN COMMUNICABLE DISEASES
WITH CASE RATES PER 100,000 ESTIMATED POPULATION
VIRGINIA, 1969-1978

Year	MUMPS			PERTUSSIS			POLIOMYELITIS		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1969	1,334	27.9	0	68	1.4	1	0	0.0	0
1970	2,271	48.7	1	163	3.5	0	0	0.0	0
1971	1,073	22.8	0	61	1.3	0	0	0.0	0
1972	1,319	27.8	0	38	0.8	0	1	*	0
1973	799	16.6	0	15	0.3	0	1	*	3
1974	822	16.7	0	38	0.8	0	1	*	0
1975	854	17.2	1	17	0.3	0	0	0.0	2
1976	227	4.5	0	12	0.2	0	0	0.0	0
1977	129	2.5	0	25	0.5	1	0	0.0	1
1978	196	3.8	0	18	0.3	0	1	*	3

Year	ROCKY MOUNTAIN SPOTTED FEVER			SALMONELLOSIS			SHIGELLOSIS		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1969	91	1.9	5	669	14.0	3	157	3.3	0
1970	58	1.2	1	762	16.3	0	77	1.7	1
1971	42	0.9	5	910	19.3	3	179	3.8	0
1972	44	0.9	2	938	19.7	2	450	9.4	0
1973	61	1.3	5	1,009	21.0	3	119	2.5	0
1974	124	2.5	3	546	11.1	1	213	4.3	0
1975	115	2.3	2	584	11.8	0	225	4.5	0
1976	100	2.0	4	559	11.1	2	127	2.5	0
1977	154	3.0	6	809	15.8	4	78	1.5	0
1978	111	2.2	4	990	19.2	3	142	2.8	0

Year	TETANUS			TULAREMIA			TYPHOID FEVER		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1969	2	*	0	4	0.1	0	1	*	0
1970	3	0.1	3	16	0.3	0	9	0.2	0
1971	4	0.1	2	9	0.2	0	15	0.3	0
1972	4	0.1	1	18	0.4	1	9	0.2	0
1973	4	0.1	3	6	0.1	0	5	0.1	0
1974	4	0.1	3	4	0.1	0	2	*	0
1975	2	*	0	8	0.2	0	7	0.1	1
1976	1	*	0	3	0.1	0	6	0.1	0
1977	1	*	0	3	0.1	0	10	0.2	0
1978	1	*	1	5	0.1	0	4	0.1	0

N.A. = Not available

* Less than 0.05

TABLE 73
REPORTED CASES OF VENEREAL DISEASE, BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
VIRGINIA, 1978

Planning District/ City or County	Total Diseases	Total Syphilis	Primary and Secondary	Early Latent	Other Syphilis	Gonorrhea	Other Diseases
STATE OF VIRGINIA	25,737	1,696	474	428	794	24,034	7
<u>District 1</u>	<u>39</u>	<u>2</u>			<u>2</u>	<u>37</u>	
Lee	8					8	
Scott	18					18	
Wise	11	2			2	9	
Norton	2					2	
<u>District 2</u>	<u>61</u>	<u>3</u>			<u>3</u>	<u>58</u>	
Buchanan	27					27	
Dickenson	2	1			1	1	
Russell	7					7	
Tazewell	25	2			2	23	
<u>District 3</u>	<u>164</u>	<u>9</u>	<u>1</u>	<u>2</u>	<u>6</u>	<u>155</u>	
Bland	4					4	
Carroll	5	1			1	4	
Grayson	1					1	
Smyth	55	4		2	2	51	
Washington	40	2	1		1	38	
Wythe	7					7	
Bristol	45	1			1	44	
Galax	7	1			1	6	
<u>District 4</u>	<u>159</u>	<u>11</u>		<u>3</u>	<u>8</u>	<u>148</u>	
Floyd	7	1			1	6	
Giles	4					4	
Montgomery	73	2		2		71	
Pulaski	46	6		1	5	40	
Radford	29	2			2	27	
<u>District 5</u>	<u>1,027</u>	<u>64</u>	<u>18</u>	<u>11</u>	<u>35</u>	<u>962</u>	<u>1</u>
Alleghany	6	1			1	5	
Botetourt	16	2			2	14	
Craig	3					3	
Roanoke	58	3			3	55	
Clifton Forge	5					5	
Covington	10	5	1	2	2	5	
Roanoke City	894	49	15	8	26	844	1
Salem	35	4	2	1	1	31	
<u>District 6</u>	<u>275</u>	<u>12</u>	<u>1</u>	<u>1</u>	<u>10</u>	<u>263</u>	
Augusta	51					51	
Bath	18	3			3	15	
Highland							
Rockbridge	28					28	
Rockingham	29					29	
Buena Vista	12					12	
Harrisonburg	31	6			6	25	
Lexington	16	2	1	1		14	
Staunton	73	1			1	72	
Waynesboro	17					17	
<u>District 7</u>	<u>127</u>	<u>12</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>115</u>	
Clarke	13					13	
Frederick	20	3		2	1	17	
Page	14	1			1	13	
Shenandoah	16					16	
Warren	16					16	
Winchester	48	8	4	2	2	40	
<u>District 8</u>	<u>2,912</u>	<u>380</u>	<u>110</u>	<u>91</u>	<u>179</u>	<u>2,531</u>	<u>1</u>
Arlington	700	112	39	27	46	588	
Fairfax	527	70	18	17	35	457	
Loudoun	98	2		1	1	96	
Prince William	93	11	2	4	5	81	
Alexandria	1,087	128	38	37	53	959	
Fairfax City	111	32	5	3	24	79	
Falls Church	200	18	5	1	12	182	
Manassas	95	7	3	1	3	88	
Manassas Park	1					1	
<u>District 9</u>	<u>114</u>	<u>12</u>	<u>4</u>	<u>1</u>	<u>7</u>	<u>102</u>	
Culpeper	42	6	4		2	36	
Fauquier	32	2			2	30	
Madison	9	3		1	2	6	
Orange	28	1			1	27	
Rappahannock	3					3	
<u>District 10</u>	<u>518</u>	<u>31</u>	<u>11</u>	<u>10</u>	<u>10</u>	<u>487</u>	
Albemarle	75	3	2		1	72	
Fluvanna	20	1			1	19	
Greene	20	2	1	1		18	
Louisa	51	2		2		49	
Nelson	26					26	
Charlottesville	326	23	8	7	8	303	
<u>District 11</u>	<u>607</u>	<u>23</u>	<u>3</u>	<u>2</u>	<u>13</u>	<u>584</u>	
Amherst	71	1			1	70	
Appomattox	24	1			1	23	
Bedford	47	6	2	2	2	41	
Campbell	72	1		1		71	
Bedford City	21	1		1		20	
Lynchburg	372	13	1	3	9	359	

(continued)

TABLE 73
REPORTED CASES OF VENEREAL DISEASE, BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
VIRGINIA, 1978 (continued)

Planning District/ City or County	Total Diseases	Total Syphilis	Primary and Secondary	Early Latent	Other Syphilis	Gonorrhea	Other Diseases
STATE OF VIRGINIA	25,737	1,696	474	428	794	24,034	7
<u>District 12</u>	<u>801</u>	<u>56</u>	<u>13</u>	<u>17</u>	<u>26</u>	<u>745</u>	
Franklin	56	4			4	52	
Henry	71	7	2		5	64	
Patrick	4					4	
Pittsylvania	254	14	2	5	7	240	
Danville	355	27	8	12	7	328	
Martinsville	61	4	1		3	57	
<u>District 13</u>	<u>279</u>	<u>22</u>	<u>4</u>	<u>9</u>	<u>9</u>	<u>257</u>	
Brunswick	87	8		6	2	79	
Halifax	68	5	2		3	63	
Mecklenburg	101	8	1	3	4	93	
South Boston	23	1	1			22	
<u>District 14</u>	<u>249</u>	<u>23</u>	<u>3</u>	<u>10</u>	<u>10</u>	<u>226</u>	
Amelia	48	5	1	1	3	43	
Buckingham	33	3	1		2	30	
Charlotte	27	3	1		2	24	
Cumberland	14	3		3		11	
Lunenburg	32	3		3		29	
Nottoway	62	4		1	3	58	
Prince Edward	33	2		2		31	
<u>District 15</u>	<u>5,289</u>	<u>408</u>	<u>148</u>	<u>113</u>	<u>147</u>	<u>4,878</u>	<u>3</u>
Charles City Co.	47	1			1	46	
Chesterfield	207	11	9	2		196	
Goochland	47	17	1	4	12	30	
Hanover	114	9	3	2	4	105	
Henrico	383	33	16	9	8	350	
New Kent	16	1		1		15	
Powhatan	44	6	1		5	38	
Richmond City	4,431	330	118	95	117	4,098	3
<u>District 16</u>	<u>171</u>	<u>16</u>	<u>5</u>	<u>1</u>	<u>10</u>	<u>155</u>	
Caroline	54	5	1	1	3	49	
King George	12	1			1	11	
Spotsylvania	27	1			1	26	
Stafford	23	5	3		2	18	
Fredericksburg	55	4	1		3	51	
<u>District 17</u>	<u>178</u>	<u>17</u>	<u>1</u>	<u>4</u>	<u>12</u>	<u>161</u>	
Lancaster	37	2		1	1	35	
Northumberland	42	6			6	36	
Richmond	50	2		2		48	
Westmoreland	49	7	1	1	5	42	
<u>District 18</u>	<u>173</u>	<u>17</u>	<u>3</u>	<u>3</u>	<u>11</u>	<u>156</u>	
Essex	17	1			1	16	
Gloucester	78	7	2		5	71	
King and Queen	27	2			2	25	
King William	25	3		1	2	22	
Mathews	12					12	
Middlesex	14	4	1	2	1	10	
<u>District 19</u>	<u>1,182</u>	<u>55</u>	<u>10</u>	<u>12</u>	<u>33</u>	<u>1,127</u>	
Dinwiddie	120	7	1	1	5	113	
Greensville	50	3			3	47	
Prince George	39	1	1			38	
Surry	58					58	
Sussex	102	11	2	3	6	91	
Colonial Heights	25	2			2	23	
Emporia	30	1			1	29	
Hopewell	91	6	1	2	3	85	
Petersburg	667	24	5	6	13	643	
<u>District 20</u>	<u>8,492</u>	<u>392</u>	<u>110</u>	<u>83</u>	<u>199</u>	<u>8,099</u>	<u>1</u>
Isle of Wight	118	1		1		117	
Southampton	124	11	2	5	4	113	
Chesapeake	787	46	8	12	26	740	
Franklin City	84	4	1		3	80	
Norfolk	4,028	190	52	38	100	3,838	
Portsmouth	2,098	60	29	16	15	2,038	
Suffolk	594	24	8	3	13	570	
Virginia Beach	659	56	10	8	38	603	
<u>District 21</u>	<u>2,598</u>	<u>82</u>	<u>12</u>	<u>27</u>	<u>43</u>	<u>2,515</u>	<u>1</u>
James City Co.	49	3	1		2	46	
York	67	3		2	1	64	
Hampton	928	29	5	9	15	898	
Newport News	1,420	33	4	10	19	1,387	
Poquoson	4					4	
Williamsburg	130	14	2	6	6	116	
<u>District 22</u>	<u>322</u>	<u>49</u>	<u>13</u>	<u>19</u>	<u>17</u>	<u>273</u>	
Accomack	228	35	10	15	10	193	
Northampton	94	14	3	4	7	80	

TABLE 74 - TUBERCULOSIS CASES UNDER SUPERVISION AND NEWLY REPORTED CASES
WITH RATES PER 100,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY
OR COUNTY OF RESIDENCE, VIRGINIA, 1978

Planning District/ City or County	Total Cases Under Supervision	Newly Reported Cases					
		Total		White		Nonwhite	
		Number	Rate	Number	Rate	Number	Rate
STATE OF VIRGINIA	1,102	722	14.0	324	7.7	398	41.4
<u>District 1</u>	<u>19</u>	<u>15</u>	<u>15.2</u>	<u>15</u>	<u>15.8</u>		<u>0.0</u>
Lee	8	9	35.6	9	36.1		0.0
Scott	5	3	12.1	3	12.3		0.0
Wise	6	3	6.2	3	6.5		0.0
Norton*							
<u>District 2</u>	<u>21</u>	<u>16</u>	<u>11.9</u>	<u>16</u>	<u>12.3</u>		<u>0.0</u>
Buchanan	4	3	8.3	3	8.5		0.0
Dickenson	3	4	20.0	4	20.4		0.0
Russell	7	4	14.0	4	14.3		0.0
Tazewell	7	5	10.1	5	10.6		0.0
<u>District 3</u>	<u>14</u>	<u>12</u>	<u>7.0</u>	<u>12</u>	<u>7.2</u>		<u>0.0</u>
Bland	1	1	15.6	1	16.5		0.0
Carroll	1	1	4.2	1	4.2		0.0
Grayson	2	1	6.4	1	6.7		0.0
Smyth	3	2	6.2	2	6.3		0.0
Washington	4	4	9.6	4	9.8		0.0
Wythe	1	1	4.1	1	4.3		0.0
Bristol	3	2	9.6	2	10.2		0.0
Galax			0.0		0.0		0.0
<u>District 4</u>	<u>23</u>	<u>10</u>	<u>7.5</u>	<u>8</u>	<u>6.3</u>	<u>2</u>	<u>31.5</u>
Floyd	5	3	28.0	3	29.8		0.0
Giles	7	3	18.0	2	12.2	1	334.4
Montgomery	8	2	3.3	1	1.7	1	42.0
Pulaski	2	1	3.0	1	3.3		0.0
Radford	1	1	8.1	1	8.6		0.0
<u>District 5</u>	<u>51</u>	<u>40</u>	<u>16.8</u>	<u>23</u>	<u>10.8</u>	<u>17</u>	<u>72.0</u>
Alleghany	1	1	7.8	1	8.1		0.0
Botetourt	1	1	4.7	1	5.1		0.0
Craig	2	2	48.8	2	48.8		0.0
Roanoke	8	5	5.8	3	3.6	2	67.2
Clifton Forge			0.0		0.0		0.0
Covington	1	1	11.1		0.0	1	92.9
Roanoke City	38	30	30.4	16	19.5	14	34.7
Salem*							
<u>District 6</u>	<u>32</u>	<u>24</u>	<u>11.9</u>	<u>21</u>	<u>11.0</u>	<u>3</u>	<u>28.5</u>
Augusta	8	5	9.6	5	10.0		0.0
Bath			0.0		0.0		0.0
Higland			0.0		0.0		0.0
Rockbridge	5	3	12.3	3	13.4		0.0
Rockingham	10	9	16.5	9	16.8		0.0
Buena Vista	1	1	14.9	1	15.4		0.0
Harrisonburg	2	2	10.6	1	5.7	1	75.9
Lexington*							
Staunton	5	4	18.8	2	10.5	2	90.7
Waynesboro	1		0.0		0.0		0.0
<u>District 7</u>	<u>31</u>	<u>30</u>	<u>23.8</u>	<u>30</u>	<u>24.9</u>		<u>0.0</u>
Clarke	1	3	32.6	3	37.8		0.0
Frederick	5	6	21.2	6	21.7		0.0
Page	5	5	26.5	5	27.3		0.0
Shenandoah	12	9	33.3	9	34.0		0.0
Warren	2	2	10.1	2	10.6		0.0
Winchester	6	5	21.6	5	23.4		0.0
<u>District 8</u>	<u>176</u>	<u>108</u>	<u>10.4</u>	<u>36</u>	<u>3.8</u>	<u>72</u>	<u>34.3</u>
Arlington	56	24*	16.1	6	4.4	18	135.1
Fairfax	64	45	8.2	14	2.7	31	93.0
Loudoun	4	3	5.6	2	4.3	1	16.1
Prince William	18	12	7.7	7	5.6	5	54.9
Alexandria	30	21	21.0	5	6.0	16	75.7
Fairfax City	3	3	14.7	2	10.1	1	152.0
Falls Church	1		0.0		0.0		0.0
Manassas*							
Manassas Park*							
<u>District 9</u>	<u>16</u>	<u>12</u>	<u>14.0</u>	<u>9</u>	<u>13.3</u>	<u>3</u>	<u>16.5</u>
Culpeper	2	1	4.6		0.0	1	19.8
Fauquier	7	6	19.2	5	20.4	1	14.7
Madison	2	1	10.1	1	12.4		0.0
Orange	5	3	17.6	2	15.0	1	27.0
Rappahannock		1	16.9	1	19.8		0.0
<u>District 10</u>	<u>14</u>	<u>10</u>	<u>7.4</u>	<u>4</u>	<u>3.7</u>	<u>6</u>	<u>22.5</u>
Albemarle	6	4	8.1	2	4.7	2	31.0
Fluvanna	1	1	9.9		0.0	1	30.7
Greene			0.0		0.0		0.0
Louisa	3	2	11.3	1	8.7	1	16.2
Nelson	1		0.0		0.0		0.0
Charlottesville	3	3	7.7	1	3.1	2	30.3

*Included with surrounding county.

TABLE 74 - TUBERCULOSIS CASES UNDER SUPERVISION AND NEWLY REPORTED CASES
WITH RATES PER 100,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY
OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

Planning District/ City or County	Total Cases Under Supervision	Newly Reported Cases					
		Total		White		Nonwhite	
		Number	Rate	Number	Rate	Number	Rate
STATE OF VIRGINIA	1,102	722	14.0	324	7.7	398	41.4
<u>District 11</u>	<u>13</u>	<u>4</u>	<u>2.2</u>	<u>3</u>	<u>2.0</u>	<u>1</u>	<u>2.9</u>
Amherst			0.0		0.0		0.0
Appomattox			0.0		0.0		0.0
Bedford	3		0.0		0.0		0.0
Campbell	5	3	6.8	3	7.9		0.0
Bedford City**							
Lynchburg	5	1	1.5		0.0	1	6.8
<u>District 12</u>	<u>23</u>	<u>15</u>	<u>6.5</u>	<u>10</u>	<u>5.8</u>	<u>5</u>	<u>8.9</u>
Franklin	1	1	3.1	1	3.5		0.0
Henry	3	2	3.7	2	4.6		0.0
Patrick	2	2	12.3	1	6.7	1	75.5
Pittsylvania	7	2	3.2		0.0	2	9.4
Danville	7	4	9.0	3	9.1	1	8.8
Martinsville	3	4	22.6	3	23.9	1	19.5
<u>District 13</u>	<u>14</u>	<u>14</u>	<u>16.8</u>	<u>4</u>	<u>8.5</u>	<u>10</u>	<u>27.9</u>
Brunswick		1	6.3		0.0	1	10.3
Halifax	9	9	24.1	2	8.8	7	48.3
Mecklenburg	5	4	13.4	2	16.4	2	11.3
South Boston**							
<u>District 14</u>	<u>15</u>	<u>7</u>	<u>8.5</u>	<u>2</u>	<u>4.1</u>	<u>5</u>	<u>15.2</u>
Amelia		1	11.9	1	21.3		0.0
Buckingham	1		0.0		0.0		0.0
Charlotte	3	2	15.7		0.0	2	38.6
Cumberland	2	1	13.7		0.0	1	32.4
Lunenburg	1	1	8.0	1	14.5		0.0
Nottoway	7	2	14.3		0.0	2	39.0
Prince Edward	1		0.0		0.0		0.0
<u>District 15</u>	<u>184</u>	<u>112</u>	<u>18.3</u>	<u>49</u>	<u>10.6</u>	<u>63</u>	<u>42.7</u>
Charles City Co.	2	1	15.2		0.0	1	18.2
Chesterfield	21	14	10.9	10	8.9	4	25.5
Goochland	4	2	17.5	1	14.9	1	21.4
Hanover	9	11	21.1	5	11.4	6	72.8
Henrico	22	19	10.9	14	9.0	5	27.1
New Kent			0.0		0.0		0.0
Powhatan	2	2	16.0		0.0	2	52.4
Richmond City	124	63	28.7	19	14.5	44	49.8
<u>District 16</u>	<u>13</u>	<u>9</u>	<u>8.1</u>	<u>5</u>	<u>5.6</u>	<u>4</u>	<u>18.2</u>
Caroline	6	5	29.4	1	11.3	4	49.2
King George	1		0.0		0.0		0.0
Spotsylvania	1		0.0		0.0		0.0
Stafford	2	1	2.7	1	3.0		0.0
Fredericksburg	3	3	17.5	3	21.2		0.0
<u>District 17</u>	<u>9</u>	<u>11</u>	<u>27.4</u>	<u>3</u>	<u>12.1</u>	<u>3</u>	<u>51.6</u>
Lancaster	1	4	39.2	2	30.5	2	54.9
Northumberland	1	2	21.1	1	17.1	1	27.3
Richmond			0.0		0.0		0.0
Westmoreland	7	5	36.5		0.0	5	85.8
<u>District 18</u>	<u>10</u>	<u>8</u>	<u>14.2</u>	<u>4</u>	<u>10.6</u>	<u>4</u>	<u>21.5</u>
Essex	4	3	37.0	1	21.0	2	59.9
Gloucester	2		0.0		0.0		0.0
King and Queen		1	16.4	1	32.8		0.0
King William	1		0.0		0.0		0.0
Mathews	1	2	24.4	1	16.2	1	49.4
Middlesex	2	2	27.0	1	21.5	1	36.4
<u>District 19</u>	<u>63</u>	<u>46</u>	<u>28.9</u>	<u>10</u>	<u>10.0</u>	<u>36</u>	<u>60.6</u>
Dinwiddie	6	5	23.4		0.0	5	58.0
Greensville	7	7	46.4	1	22.0	6	110.2
Prince George	4	2	9.1	1	6.1	1	18.3
Surry	5	5	87.7		0.0	5	135.0
Sussex	10	4	37.0	1	24.9	3	44.2
Colonial Heights	4	3	17.3	2	11.6	1	990.1
Emporia**							
Hopewell	3	3	12.6	3	15.1		0.0
Petersburg	24	17	39.4	2	10.2	15	64.8
<u>District 20</u>	<u>252</u>	<u>142</u>	<u>17.0</u>	<u>37</u>	<u>6.1</u>	<u>105</u>	<u>44.9</u>
Isle of Wight	9	8	39.2	1	8.8	7	77.5
Southampton	8	3	15.3	3	29.1		0.0
Chesapeake	11	7	6.2	2	2.3	5	18.3
Franklin City	3	3	42.3		0.0	3	78.8
Norfolk	126	66	23.6	13	6.8	53	58.9
Portsmouth	50	17	15.8	6	9.8	11	23.6
Suffolk	16	16	34.1	3	12.3	13	57.9
Virginia Beach	29	22	9.1	9	4.2	13	51.0

**Included with surrounding county.

TABLE 74 - TUBERCULOSIS CASES UNDER SUPERVISION AND NEWLY REPORTED CASES
WITH RATES PER 100,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY
OR COUNTY OF RESIDENCE, VIRGINIA, 1978 (continued)

Planning District/ City or County	Total Cases Under Supervision	Newly Reported Cases					
		Total		White		Nonwhite	
		Number	Rate	Number	Rate	Number	Rate
STATE OF VIRGINIA	1,102	722	14.0	324	7.7	398	41.4
District 21	78	53	15.4	19	7.2	35	36.5
James City Co.	10	7	21.7	2	13.8	5	76.6
York	4	3	7.0	2	7.4	1	15.2
Hampton	24	13	10.5	7	8.0	6	16.1
Newport News	40	30	20.9	7	6.9	23	55.2
Poquoson*							
Williamsburg*							
District 22	25	21	44.4	2	7.2	19	97.1
Accomack	11	11	34.5		0.0	11	92.7
Northampton	14	10	64.9	2	26.0	8	103.9
Mental Hospitals	6	3		3			

*Included with surrounding county.

TABLE 75
TUBERCULOSIS MORBIDITY AND MORTALITY WITH RATES
PER 100,000 ESTIMATED POPULATION, VIRGINIA, 1968-1978

Year	New, Active Cases		Deaths ¹⁰⁰		Cases Under Supervision (Dec. 31)
	Number	Rate	Number	Rate	
1968	1,441	30.7	184	3.9	11,027
1969	1,186	24.8	131	2.7	10,060
1970	1,175	25.2	88	1.9	8,382
1971	912	19.3	84	1.8	7,734
1972	817	17.1	87	1.3	7,394
1973	839	17.4	80	1.7	7,105
1974	799	16.3	66	1.3	6,801
1975*	908	18.3	55	1.1	6,272
1976	821	16.3	59	1.2	3,777
1977	742	14.5	56	1.1	1,866
1978	722	14.0	NA	NA	1,102

* As a result of 1974 changes in "Diagnostic Standards and Classification of Tuberculosis", figures after 1974 reflect all newly reported cases without reference to activity.

¹⁰⁰ Due to differences in the way the underlying cause of death is selected, these figures for deaths from tuberculosis are not the same as the figures in the Vital Statistics Section of this report.

TABLE 76
NEWLY REPORTED TUBERCULOSIS CASES BY LOCATION OF DISEASE
AND BACTERIOLOGIC STATUS, VIRGINIA, 1977 and 1978

Predominant Site	Total Cases		Bacteriologic Status					
			Positive		Negative		Not Done/Unknown	
	1977	1978	1977	1978	1977	1978	1977	1978
ALL SITES	742	722	616	614	68	52	58	56
Pulmonary	612	606	524	529	44	37	44	40
Extrapulmonary	130	116	92	85	24	15	14	16
Pleural	24	24	13	13	10	9	1	2
Lymphatic	20	20	15	17	2	1	3	2
Bone/Joint	7	13	5	7	1	2	1	4
Genitourinary	26	14	23	14	1	0	2	0
Miliary	25	17	19	14	3	1	3	2
Meningeal	4	8	1	6	3	1	0	2
Peritoneal	5	4	3	2	1	1	1	1
Other	19	16	13	12	3	0	3	3

OFFICE OF HEALTH CARE PROGRAMS

The Office of Health Care Programs contains the Divisions of Family Health Services, Dental Health, Medical Assistance (MEDICAID) and Emergency Medical and Health Facilities Services. Within Family Health Services are the Bureaus of Maternal and Child Health, Family Planning, Crippled Children Services, Medical Social Work, Home Health Services, Public Health Nursing, and Nutrition, and within Emergency Medical and Health Facilities Services are the Bureaus of Emergency Medical Services and Medical and Nursing Facilities Services.

FAMILY HEALTH SERVICES

MATERNAL AND CHILD HEALTH

During the last few years, more and more women have been planning their families to suit their life styles by limiting the number of children they have and deciding when to have them. The interval between births has also increased. As a result, the emphasis of maternity care has shifted to the well-being of the fetus in utero and the quality of life of the newborn.

The Bureau of Maternal and Child Health continues its commitment to early identification of the high-risk prenatal patient and her prompt referral to a high-risk center. These centers provide consultative services within their health region, give direct clinic services, and often provide labor, delivery, and postpartum hospital care to the high-risk mother and her infant. During the year, contracts with the high-risk clinics were written to assure that high-risk indigent maternity patients receive quality care. There is continued emphasis on referrals and communications between the local health departments and the high-risk centers.

Through in-service training, the Maternal and Child Health staff has educated public health nurses in recognizing the high-risk patient for prompt referral. Each high-risk center also has a continuing education program for public health nurses in their referral area to improve communications between the center and clinics.

The Bureau of Maternal and Child Health continues to be concerned with improving the outcome of pregnancy. The State Health Department was awarded an "Improved Pregnancy Outcome" grant beginning September 1978. Two districts with a high perinatal mortality rate were selected to start the project (Crater Health District and Cumberland Plateau), and two more districts (Piedmont District and Eastern Shore) were added before the end of the year. This project is designed to provide prenatal care by utilizing all community resources possible to improve the pregnancy outcomes of mothers in these districts.

Teenagers who become pregnant present special problems during pregnancy. Early prenatal care will mitigate the risk to both woman and fetus. In 1978, 3,567 patients between the ages of 10-17 attended local health department clinics for their prenatal care; 45.2 percent started their care in the first trimester, 42.0 percent in the second trimester and 12.8 percent received their care in the third trimester.

Under the Bureau's hospitalization program for fiscal year 1979, a total of 8,580 hospital days were authorized for 1,188 admissions at a total of \$1,889,884. This program provides for the hospitalization of indigent women with complicated pregnancies and indigent infants under 30 days of age which have high-risk conditions.

Hospital personnel, the medical community and consumers have become increasingly interested in alternatives for birth care. A task force was formed by nine obstetricians, pediatricians, hospital administrators, nurses and a hospital architect to write guidelines for Birthing Rooms within the hospital's obstetrical department. These guidelines will be incorporated in the Rules and Regulations for General Hospitals.

Throughout the year, prenatal care was evaluated in many of the local health departments by the Maternal and Child Health staff. The recommendations were often followed by staff conferences at the local health departments. In the future, more emphasis will be placed on utilization of existing facilities within the communities. A method for tracking the mother and her newborn will be developed so that there is a system that will identify pregnancy outcome.

The Bureau, through its Child Health Program, promotes preventive health services and the delivery of high-quality comprehensive health care for all children within the Commonwealth. Special attention is being given to high-risk infants and pre-school aged children. Within the past year, approximately 11,817 of the State's newborn were seen in clinics conducted by the Health Department.

As a part of the Child Health Program, thirteen regional child development clinics provide comprehensive diagnostic services to children with previously screened developmental problems, such as suspected mental retardation. During fiscal year 1979, these clinics served a total of 4,286 children. The child development clinics have a significant function in the State's Plan for the Identification and Diagnosis of Handicapped Children. In order to better identify handicapped children, an agreement has been signed with James Madison University establishing a part-time clinic in Harrisonburg with facilities located on the campus of the University to serve children in Planning District 6. In addition, the Bureau has been given authorization to establish a field clinic in Planning District 1.

On May 1, 1979, the infant screening program for congenital hypothyroidism became Statewide for infants born or residing in Virginia. The T4 test, and TSH, if indicated, are run on the same blood sample used for the Guthrie test for PKU. During fiscal year 1979, six babies were diagnosed with congenital hypothyroidism and nine babies with Thyroid Binding Globulin Deficiency. There were no infants diagnosed with PKU during fiscal year 1979. Twenty-seven PKU children were active cases in the PKU Program during the period.

The local health departments report they performed the following Sickie Cell Electrophoresis screening tests for fiscal year 1979:

Maternal-Child Health Clinics	- 17,497 tests
Medical, Mental, Miscellaneous Clinics	- 1,168 tests
Medicaid Screening Clinics	- <u>5,852 tests</u>
	24,517 total tests

Within the Maternal and Child Health Program, Federal funds are designated for the operation of a Program of Projects that provides special health services in specific geographical locations. An unduplicated count of patients served for the calendar year 1978 is as follows: (1) Green County Dental Project served 701 patients, (2) Richmond Maternal and Infant Care Project served 13,350 patients, (3) Children and Youth Projects (Charlottesville and Norfolk) served 7,492 patients, and (4) the Intensive Infant Care Project, Children's Hospital of the King's Daughters, Norfolk, served 168 infants. Of these, 32 were born in the Project hospital while 136 were born elsewhere.

FAMILY PLANNING

The programs funded through the Bureau of Family Planning have continued to expand over the last fiscal year.

The Title XX sterilization program, available on a Statewide basis, authorized 1,546 sterilizations between July 1, 1978, and June 30, 1979, a 28 percent increase over fiscal year 1978. For fiscal year 1979, 1,176 sterilizations were performed with Title XX funds.

The Bureau of Family Planning's adolescent family planning program continued its expansion of teen clinics from the initial 8 clinics in 1978 to a total of 33 clinics held exclusively for teens at the end of 1979. The "Facts of Life" hotline was expanded in early spring of 1979 to a Statewide toll-free line operating seven days and nights a week.

The Bureau of Family Planning, working with the State Department of Education, assisted in implementing the K-12 Family Life Education Curriculum in 20 counties and 10 cities throughout the State. It is anticipated a minimum of eight additional counties and six cities will implement the program in fiscal year 1980.

Various staff development and public education activities were conducted by the Bureau of Family Planning. For example, a Statewide introductory workshop for new employees was held in the spring, four regional workshops were conducted on adolescent family planning services, and one large Statewide workshop was conducted on family planning outreach. Numerous lectures on various family planning topics were conducted for many public and private groups.

Alleghany Health District joined the Virginia Family Planning Project bringing the State total to 32 of the 35 Health Districts now participating under the Title X program. The Bureau of Family Planning added 49 new positions in 23 Health Districts in early winter, strengthening these districts to enable them to serve a rapidly growing number of patients.

Data collected for fiscal year 1979 indicate that 82,175 patients made 128,919 visits to Bureau of Family Planning supported clinics during the year. The clinic population is racially balanced, and teenagers represent 30 percent of the patients receiving services.

The "pill" and the IUD are the two methods of contraception most preferred by our patients. The combination of foam and condoms are a distant third followed by sterilization, diaphragm, foam-jelly-cream, condoms alone, and natural family planning methods.

The Bureau of Family Planning will continue to provide an increasing number of Virginians with medical, educational, and counseling services as it maintains its model family planning program.

CRIPPLED CHILDREN SERVICES

The Bureau of Crippled Children operates the following programs for medically indigent handicapped children who reside in the State with their legal guardians: Orthopedic, Cerebral Palsy, Child Amputee, Scoliosis, Rheumatic Fever, Congenital Heart Disease, Child Neurology, Facial Deformities, Dental Deformities, Eye Surgery, Defective Hearing, Pediatric Surgery, Pediatric Urology, Pediatric Neurosurgery, Plastic Surgery, Burn, Cystic Fibrosis, Rheumatoid Arthritis, Hemophilia, and Pediatric Endocrinology. For the purposes of the program, a physically handicapped child is a person under the age of 21 with certain physical defects resulting from congenital anomalies or acquired through disease, accident, or faulty development, who, in the opinion of the medical specialist, can be benefited by treatment. As of 1974, legislation extended services under the Cystic Fibrosis and Hemophilia Programs to individuals over age twenty-one. The Adult Neurology Program includes only cases who were transferred from Child Neurology at age 21.

The Bureau operates by close cooperative agreement with other services within the State Health Department, and with other official and non-official organizations and consultative services. It makes contracts and plans for total programs which are built around stationary and field clinics as well as hospital and convalescent care. The case finding, field clinics, field follow-up, and local management are carried on by local health department staff. The hospital clinics and certain local independent clinics are run by their own staffs in cooperation with local health departments. The Bureau of Crippled Children purchases hospital and convalescent ward services.

Any physician, hospital, agency, or patient may request admission to a Bureau of Crippled Children program by contacting the local health department where the patient lives. Emergency admissions may be made by contacting the local health department or a Bureau of Crippled Children clinic office.

The Bureau of Crippled Children, under the Disabled Children's Program, administers the Supplemental Security Income (SSI) Program under Public Law 94-566. All children certified for SSI, from birth to age seven or of any age who have never attended public school, are referred by SSA to the Bureau, which is mandated to provide proper and appropriate medical, rehabilitative, educational, social, developmental, and emotional services to prepare the child for entrance into the public school system and to enhance the child's ability to benefit from the subsequent training and education. SSI eligible children from age seven years to sixteen years will receive a routine referral to the Bureau of Crippled Children for any benefits that the Bureau provides.

As shown in the summary of Crippled Children activities (Table 79, page 243) the case register consisted of 38,997 records at the end of fiscal year 1979. This was an increase of 3.7 percent over the 37,593 records at the end of the previous report period.

During the year, 8,275 new cases were added to the Crippled Children register, while 6,871 were removed. This was an increase of 17.7 percent in the number of new cases added and an increase of 4.3 percent in the number removed. Of those removed, 4.6 percent were individuals who had reached 21 years of age and, therefore, were no longer qualified to receive services under the Children's program; 4.9 percent established residence in another state; 1.1 percent of the registrants died; 11.5 percent had no crippling condition or had registered with the Crippled Children Bureau in error; and another 13.4 percent were removed because they were cured or had received maximum benefits available. The remaining 64.5 percent were closed due to inactivity status or various other reasons.

DISTRIBUTION BY PROGRAM OF CHILDREN REGISTERED IN THE
CRIPPLED CHILDREN BUREAU AS OF JUNE 30, 1978 AND 1979

Program	Number of Cases	
	1978	1979
TOTAL	37,593	38,997
Orthopedic*	23,247	23,848
Child Neurology	3,225	3,287
Congenital Heart Disease	2,963	3,130
Defective Hearing	2,387	2,612
Eye Surgery	1,248	1,353
Pediatric Urology	1,014	958
Pediatric Surgery	756	868
Facial Deformity	588	600
Plastic Surgery	549	560
Pediatric Neurosurgery	518	536
Rheumatic Fever	572	496
Cystic Fibrosis	218	233
Adult Neurology	58	187
Pediatric Endocrinology	61	102
Burn Surgery	63	67
Hemophilia	55	67
Rheumatoid Arthritis	46	55
Adult Hemophilia	16	24
Adult Cystic Fibrosis	9	14

*Includes also Cerebral Palsy, Child Amputee and Scoliosis

Although new cases added to the register increased by 17.7 percent, the number of children receiving care in one or more of the Bureau's programs increased by only 5.0 percent. There were 22,538 children receiving care during 1979, 1,068 more than the 21,470 served by the Crippled Children's Bureau during fiscal year 1978. Children receiving clinic services increased by 6.7 percent. Clinic services were provided to 21,728 children, 1,358 more than the previous total of 20,370. As shown in the following table, the number of children seen in clinics increased in 11 programs and decreased in 8 programs. A total of 3,789 clinic sessions were held during the year with 43,425 patient visits recorded, an average of 11.5 patient visits per clinic session.

There was a decrease of 8.4 percent in the number of cases requiring hospitalization; 14.4 percent in the number of admissions; and 25.2 percent in the number of days care provided by the program. Average number of hospital days per admission declined from 7.9 days in fiscal year 1978 to 6.9 days during fiscal year 1979. There were an additional 61 children who received minor surgery as out-patients in hospitals or doctors' or dentists' offices.

Drugs, diagnostic tests, contractual therapy and appliances are some of the auxiliary services furnished by the Crippled Children's Bureau. Excluding staff and administrative expenditures, auxiliary services accounted for 23.3 percent of the expenditures for Crippled Children programs during fiscal year 1979. The number of children furnished prostheses, appliances, and plasters was 2,648. Children receiving auxiliary services, including those who received drugs in conjunction with tests or appliances, and contractual therapy, were 7,583. The number of children receiving appliances and the quantity of appliances are listed in the following table for fiscal years 1978 and 1979.

NUMBER OF CHILDREN SEEN IN CLINICS BY PROGRAM
FISCAL YEARS 1977 - 1979

Program	1977	1978	1979
TOTAL	20,103	20,370	21,728
Orthopedic*	7,357	8,114	8,901
Child Neurology	2,997	2,746	2,759
Congenital Heart Disease	2,386	2,467	2,625
Defective Hearing	2,203	2,044	2,409
Eye Surgery	1,229	1,202	1,334
Pediatric Urology	950	954	892
Pediatric Surgery	483	521	484
Facial Deformity	495	477	460
Plastic Surgery	529	479	450
Pediatric Neurosurgery	415	400	367
Rheumatic Fever	607	471	361
Cystic Fibrosis	204	215	224
Adult Neurology	48	63	196
Pediatric Endocrinology	38	50	82
Hemophilia	41	45	58
Burn Surgery	54	50	45
Rheumatoid Arthritis	34	38	36
Adult Hemophilia	20	24	32
Adult Cystic Fibrosis	13	10	13

*Includes also Cerebral Palsy, Child Amputee and Scoliosis

APPLIANCES PROVIDED TO CHILDREN BY THE CRIPPLED CHILDREN PROGRAM
FISCAL YEARS 1978 AND 1979

Type Appliance	Children		Quantity	
	1978	1979	1978	1979
(Unduplicated) TOTAL	2,735	2,648	7,154	7,591
Hearing aids	217	203	291	288
Braces	434	344	476	383
Shoes	1,287	1,230	1,734	1,656
Dental	16	4	18	4
Orthodontics	96	91	504	441
Glasses	404	415	444	445
Prostheses	62	44	73	48
Repairs/alterations	604	465	931	745
Other	254	266	2,683	3,581

MEDICAL SOCIAL WORK

The Bureau of Social Work is located organizationally in the Division of Family Health Services; however, it is professionally responsible for all social work in the State Health Department. It has broad responsibilities for professional development, program planning, training, and professional performance of social workers, and it assists in social work recruitment, selection, and orientation. Public health social work positions are budgeted through the bureau, project, or local health department to which the social worker is assigned and are the administrative responsibility of the organizational unit in which they are budgeted.

Social work is provided in a variety of different types of public health settings. These include local health departments, crippled children clinics, family planning activities, maternal and infant care projects, children and youth projects, child development centers, and the Virginia Medical Assistance Program (Medicaid).

The public health social worker, functioning as a part of the health care team, helps to achieve a coordinated effort in the resolution of the patient's problems. The social worker applies knowledge of the principles of human behavior and social and emotional adjustment to the problems and needs of the patient which are interfering with or preventing the patient's recovery.

The population served by public health social work includes pregnant women, pre-school children, children who are crippled or suffering from conditions that lead to crippling, tuberculosis patients, persons needing information about family planning, the aged, and the terminally ill. Social workers with the State Health Department work with other health professionals in evaluating the quality of care being provided in long-term care facilities such as nursing homes, state mental hospitals, and institutions for the mentally retarded.

SOCIAL WORK POSITIONS IN THE STATE HEALTH DEPARTMENT AUGUST 1, 1979

Program	Professional	Aides
TOTAL	42	65
Maternal and Child Health	14	5
Crippled Children	9	1
Family Planning	7*	22
Health Department (Local)	8	17**
Health Department (State)	1	
Medical Assistance	3	20

*Includes two Family Planning Counseling Specialists

**Includes eight Welfare Eligibility Technicians

Note: There are two part-time social workers with Local Health Services; five part-time workers with the Bureau of Crippled Children; three part-time workers with the Bureau of Family Planning; one contract social worker with Local Health Services

HOME HEALTH SERVICES

With the enactment of the Federal Insurance Medicare (Title XVIII), the Division of Local Health Services, State Health Department, was certified to provide home health services through the local health departments as of July 1, 1966. To start the program 58 local health departments were certified as Home Health Agencies by complying with Conditions of Participation as set up by the Social Security Administration. There were 82 local health departments certified by the end of the fiscal year 1967. As of June 30, 1979, 35 districts, including 117 local health departments, were certified as Home Health Agencies.

Home health services are available to all segments of the population in all Virginia localities. Home health services are provided pursuant to doctors' orders, to homebound patients without regard to age, race, creed, source of payments or patients' ability to pay whenever there is a need and appropriate staff is available. Nursing and other services such as physical therapy, occupational therapy, speech therapy, medical social workers, nutritionists and home health aides are available. Emphasis continues to be on the use of contract personnel to help meet the increase in persons requiring home health services.

In May 1977, a pre-screening program for Medicaid recipients requesting admission to nursing homes was initiated by the Medical Assistance Program. In each geographic locality, a Nursing Home Pre-Admission Screening Committee assesses the possibility of keeping the individual in the community by providing home health and other community services.

For the fiscal year 1979, 82 percent of all patients were eligible for Medicare, Medicaid or Title XX. Eighty percent of all chargeable visits were billed by Home Health Services to the above sources, while the remaining 20 percent were billed to other sources, which includes patients.

During fiscal year 1979, the Home Health Services Program, operated in cooperation with 117 city and county health departments, provided care to 9,584 patients and made 216,957 chargeable visits. These figures represent increases of 10 percent in patients and 10 percent in visits over the previous year. The average number of visits per patient was 22.6. An itemized list of the number of patients and visits by city and county is presented in Table 80, page 245. The total billing for fiscal year 1979 was \$5,099,828 of which Medicare was billed \$2,662,968; Medicaid was billed \$1,093,464; Title XX was billed \$302,012 and other sources were billed \$1,041,384. Total receipts were \$3,453,845, of which \$2,267,841 was received from Medicare; \$863,046 from Medicaid; \$181,482 from Title XX; and \$141,476 from other sources.

The distribution of patients by age group and by Medicare and Non-Medicare classifications indicated that 58.0 percent were Medicare patients. Of the 9,584 patients served, 70.1 percent were 65 years of age or older.

HOME HEALTH SERVICES
AGE OF PATIENTS BY PAYMENT SOURCE
FISCAL YEAR 1979

Payment Source	Total	Under 1	1-4	5-9	10-14	15-19	20-44	45-59	60-64	65 & Over
TOTAL	9,584	121	111	68	70	61	529	1,132	771	6,721
Medicare	5,559	9	3	10	20	2	73	195	198	5,049
Medicaid	1,731	51	78	37	26	25	212	354	231	717
Title XX	561	9	6	2	5	3	43	124	89	280
All other sources	1,733	52	24	19	19	31	201	459	253	675

In the distribution of visits by major disease categories, hypertension and diabetes ranked one and two, respectively. Patients with hypertension received 24.9 percent and patients with diabetes received 11.4 percent of all program visits.

HOME HEALTH SERVICES
PATIENTS AND VISITS BY MAJOR DISEASE CATEGORIES
FISCAL YEAR 1979

Disease Category	Patients	Visits	Rank
TOTAL	9,584	216,957	
Hypertension	2,385	53,980	1
Diabetes	1,095	24,798	2
Cardiac	869	19,678	3
Cancer	605	13,690	4
Cerebral Vascular Accidents	548	12,410	5
Muscular-Skeletal Conditions	415	9,394	6
Neuro-Sensory	380	8,613	7
Anemias	346	7,836	8
Senility, Cerebral Arteriosclerosis	293	6,628	9
Arthritis	251	5,671	10
Kidney Disorder	162	3,667	11
Other	2,235	50,592	

During the year, the public health nurses made 121,249 visits, or 55.9 percent of the total visits. Home Health Aides made 58,973 visits (27.2 percent of the program visits), physical therapists, 28,388 visits (13.1 percent), occupational therapists, 2,127 visits (1.0 percent), speech therapists, 4,488 visits (2.1 percent), male orderlies, 792 visits (0.4 percent), and medical social workers, 940 visits (0.4 percent).

PUBLIC HEALTH NURSING

During fiscal year 1979, a total of 2,302,104 hours were expended by Public Health Nursing staff in providing health services to people in home, institutions, and communities in Virginia. The trend for more available nursing time to be given to clinic activities rather than to home visiting continues. For this fiscal year, 761,047 hours were utilized for nursing service in clinic settings.

PERCENT OF NURSING TIME SPENT BY TYPE OF ACTIVITY
FISCAL YEAR 1979

Total Time	All Patient Visits*	Participation in Clinic	Community Activity	Professional Improvement	Phone Calls Updating of Records Other Miscellaneous
100.0	29.7	33.1	5.5	7.7	24.1

*Includes visits to or regarding patients in the home, office, school or other location.

The number of new patients admitted to Public Health Nursing supervision during fiscal year 1979 in all programs was 44,600; the number of persons served was 201,588; and the number of cases on hand as of July 1, 1979, was 52,605. This was a reduction over the previous year of persons served by over 13,000 patients.

The Certified Nurse Practitioner movement is continuing to develop. At the end of fiscal year 1979, there were 20 Family Nurse Practitioners and 16 Clinical Nurse Practitioners functioning in the Health Department. The Clinical Nurse Practitioners are certified as either pediatric, maternity, geriatric, family planning, or adult nurse practitioners. Located in isolated rural areas of the State or in the inner cities, they provide health services for people who would otherwise not have health services.

The number of cases opened to nursing care in the Home Health program and funded through Medicare continues to increase. This program represents approximately 23 percent of total nursing time and 55 percent of time spent in all visits. Public health personnel served 14,845 chargeable and non-chargeable patients in the Home Health program this fiscal year using generalized public health nursing personnel and part-time and contract nursing personnel.

The Bureau of Public Health Nursing administered a Federally funded, Statewide project this fiscal year to develop a model for Homemaker-Home Health Aide training. Classes held in 8 regional sites provided an 80-hour course utilizing the model curriculum of the National Council for Homemaker-Home Health Aide Services, Inc. A total of 129 aides, employed both by the Health Department and by private agencies, participated.

HOURS SPENT IN ALL PUBLIC HEALTH NURSING VISITS BY PROGRAM
FISCAL YEAR 1979

Program	Hours
TOTAL	683,538
Home Health	377,357
Child Health	90,760
Crippled Children	59,991
Family Planning	39,145
Chronic Disease	37,555
Maternal Health	31,793
Tuberculosis	27,497
Mental Health	9,822
All other	9,618

PUBLIC HEALTH CLINIC ACTIVITY

Clinical Services for people of this Commonwealth this fiscal year were the largest and most varied of any previous year reported. There were 65,130 clinics held with 1,070,442 visits and 559,763 persons served. A data summary by the type of clinic as classified by and reported through the local health departments follows.

CLINIC VISITS AND PERSONS SERVED BY TYPE OF CLINIC FISCAL YEAR 1979

Type of Clinic	Clinic Visits	Persons Served
TOTAL	1,070,442	559,763
Maternal and Child Health	278,013	115,279
Family Planning	154,668	76,621
Maternal and Family Planning	38,868	17,998
Gynecology	7,456	4,610
General Medical and Family Practice	131,305	47,617
Tuberculosis and Respiratory	100,646	79,702
Immunization	106,058	71,566
Crippled Children	42,172	20,207
Chronic and Specialized	29,178	10,623
Other Specialized	178,370	112,950
Unknown	3,708	2,590

NUTRITION

The Bureau of Nutrition, within the Division of Family Health Services, helps to prevent diet-related health problems, and aids in recovery and rehabilitation in persons with illness or injury through the efforts of the public health nutritionist. As a member of the health care team, she works closely with public health physicians and nurses, as well as with a variety of other human services personnel.

During fiscal year 1979, the eight full-time and three part-time public health nutritionists around the State provided counseling and/or nutrition education services to approximately 14,000 patients and more than 2,200 health professionals. The patients are seen primarily in clinics where they are screened for nutrition problems and an assessment of their nutritional status is made.

The Nutrition related health problems cover a wide variety of situations. Inadequately nourished women have an increased risk of a poor pregnancy outcome which may result in low birthweight infants who are more likely to be retarded in their physical and mental development. Other problems include a high degree of overweight in school age children and adults, widespread dental disease among the total population, poor nutrition among the elderly, and a number of chronic diseases which require dietary treatment, monitoring and follow-up.

The nutritionist plans for the care of these and similar nutrition related problems by using the resources at her disposal, sometimes referring persons to the Food Stamp Program or other community food assistance efforts. The availability of resources is often quite limited, however, and there is an urgent need for increased nutrition services in the Home Health Program, and

in family planning, crippled children, and general medical clinics. In the evaluation of local health districts in three different regions, every area requested additional nutrition services.

Inservice training is the principal means for keeping the health professional up to date on developments in the nutrition field. This year three Infant Feeding Symposia for physicians, nurses and nutritionists were held in Richmond, Roanoke, and Abingdon, sponsored by the Bureau in cooperation with the Virginia Academy of Pediatrics. In addition, a presentation of "Nutrition for the Elderly" was made at the Continuing Medical Education Conference, and nutritionists also helped in the Statewide training of home health aides.

Beyond these initiatives, the Bureau of Nutrition has taken the lead in setting up a State Task Force on Food and Nutrition Policy, chaired by the Secretary of Human Resources, and helped to organize six regional forums on food and nutrition that were attended by nearly 500 people.

WIC Program

The Special Supplemental Food Program for Women, Infants and Children (WIC) is a 100 percent Federally funded program sponsored by the United States Department of Agriculture, administered in Virginia by the State Health Department. The purpose of the WIC Program is to provide special supplemental foods and nutrition education to low income, pregnant, post-partum and breast-feeding women, and infants and children up to age five years who have special nutritional needs.

During the Federal fiscal year, the WIC Program grew from a first-quarter allocation of 2.5 million dollars to a fourth-quarter allocation of 3.9 million dollars.

It is estimated that there are approximately 152,000 potentially WIC eligible Virginians. Program funding for Federal fiscal year 1979 limited program benefits to approximately 42,000 eligible Virginians. The table below gives the number of actual and potentially eligible WIC participants by health districts.

WIC PROGRAM ESTIMATED POTENTIAL CASELOAD AND
ACTUAL CASELOAD (JULY 31, 1979) BY HEALTH DISTRICT
VIRGINIA

Health District	Estimated Potential Caseload (200% Poverty)	Actual Caseload 7/31/79
Alexandria	952	1,108
Alleghany	2,788	671
Arlington	788	733
Central Shenandoah	5,806	674
Central Virginia	5,450	1,546
Chesapeake	3,164	682
Chesterfield	2,590	711
Crater	5,338	1,479
Cumberland Plateau	9,524	907

Note: Table continued on next page.

WIC PROGRAM ESTIMATED POTENTIAL CASELOAD AND
ACTUAL CASELOAD (JULY 31, 1979) BY HEALTH DISTRICT
VIRGINIA (continued)

Health District	Estimated Potential Caseload (200% Poverty)	Actual Caseload 7/31/79
Eastern Shore	2,220	1,769
Fairfax	4,664	816
Hampton	3,100	1,139
Hanover	2,658	570
Henrico	1,940	701
Lenowisco	7,682	1,098
Lord Fairfax	3,966	1,269
Loudoun	1,622	235
Martinsville/Henry	3,802	398
Middle Peninsula	2,380	389
Mount Rogers	7,358	1,751
New River	3,972	551
Northern Neck	1,904	335
Norfolk	11,394	3,397
Peninsula	5,772	1,731
Piedmont	4,760	1,754
Pittsylvania/Danville	4,158	1,012
Prince William	3,174	591
Rappahannock	4,176	607
Rappahannock/Rapidan	3,762	608
Richmond City	5,914	5,682
Roanoke City	2,916	1,508
Southside	4,306	970
Thomas Jefferson	4,664	1,859
Tidewater	7,838	2,646
Virginia Beach	6,038	701

DENTAL HEALTH

The State Dental Program provides dental care to indigent and dental indigent patients by 82 full-time dentists employed in the local health departments. These clinicians work in well-equipped facilities located in the health departments or in movable dental trailers temporarily located at rural schools. In nine communities, where public health dentists are not employed or to supplement the services of the local clinicians, dentists are employed on an honorarium fee schedule, making use of in-house equipment. Despite the increase in dental health programs in most of the State in the past ten years, many rural counties still are not meeting the needs of the dental indigent patients who are dependent upon these programs for services.

Since its inception in 1921, the public health dental program in Virginia has had as its primary goal the provision of dental services to the indigent school child. Priority for dental care continues with the primary school child; however, many clinics, particularly those located within the local health department, also provide much needed services to adult patients. Dental care for the older patient continues to be a major problem, and several localities are now beginning to meet this need.

DENTAL PATIENT VISITS BY AGE
FISCAL YEAR 1979

Age	Visits	Age	Visits
TOTAL	120,581*		
Under 6	12,342	16-19	14,142
6	6,959	20-30	13,954
7	8,336	31-40	5,408
8	8,232	41-50	3,149
9	7,331	51-60	3,018
10	7,097	61-70	3,290
11-15	25,350	70+	1,973

*Does not include patient visits seen by dental assistants which are tabulated by city/county on Page 252.

The cost of dental services provided patients continues to escalate. However, by placing a conservative dollar value on services provided by public health dental programs, the program's fiscal value can be realized. For this fiscal year, 416,020 services were provided for an estimated dollar value of \$3,785,878.

The oral cancer early detection program is a cooperative service of the American Cancer Society and community private dental groups as well as the Virginia Dental Association and the Dental School of the Medical College of Virginia, Department of Oral Pathology. The programs are monitored and managed through the Division of Dental Health. Screening clinics were conducted at 32 locations in which 2,864 persons were screened, 15 malignant lesions were detected, 3 dysplasias or premalignant lesions were diagnosed, and 15 patients were referred for further study.

A fluoridation mouthrinse program was begun in rural schools serving approximately 30,000 students. Reaction to this program has been very favorable with over 90 percent of the student body participating.

The City of Emporia began to fluoridate their central water supply system in October 1978.

MEDICAL ASSISTANCE (MEDICAID)

The Title XIX Medical Assistance Program, referred to as Medicaid was established in 1965 under the provisions of Public Law 89-97. On the recommendation of the Governor's Advisory Committee on Medicare, the State Department of Health was designated in December 1965, as the State agency to administer the Title XIX Medical Assistance Program. At the General Assembly's 1966 session, the State Health Commissioner, subject to the approval of the Governor and the State Board of Health, was authorized to prepare and submit a plan for Medical Assistance to the U. S. Department of Health, Education, and Welfare (HEW). The Committee on Medicare was continued and charged with the responsibility of advising and assisting the Health Department in developing the State Program for Medical Assistance.

The Virginia State Plan for Medical Assistance was approved by HEW in June 1969, and the Program was implemented on a Statewide basis on July 1, 1969. In the initial phase of implementation, the plan provided financial assistance for meeting certain health care expenses only for the State's categorically needy persons. This group consisted of recipients of money grants under Federal aid programs such as: Old Age Assistance (OAA), Permanently and Totally Disabled (APTD), Families with Dependent Children (AFDC), Foster Children (FC), and Aid to the Blind (AB).

The Medical Assistance Program was expanded on January 1, 1970, to include certain benefits for persons who are medically needy and "categorically related." Persons in this group are able to provide their food, clothing, and shelter, but do not have sufficient funds to pay for medical care. To be eligible for the Program, medically needy persons must be blind, disabled, 65 or older, or a dependent child (categorically related). Their income may exceed basic public assistance for the Title XIX Program. Financial resources, as well as recent medical care debts, are taken into consideration in determining eligibility.

MEDICAID ELIGIBILITY BY FEDERAL CATEGORY AS OF JUNE 30, 1979

Federal Category	Total Eligible	Categorically Needy	Medically Needy
TOTAL	273,307	234,746	38,561
Aid to Families with Dependent Children	174,308	162,561	11,747
(Children)	122,677	114,415	8,262
(Adults)	51,631	48,146	3,485
Old Age Assistance	53,252	34,994	18,258
Aid to the Disabled	36,341	28,047	8,294
Foster Care Children	5,762	5,762	
Aid to the Blind	1,338	1,076	262
Refugees - Indo-Chinese	2,306	2,306	

On January 1, 1974, the Supplemental Security Income (SSI) Program, a Federal assistance program, replaced the adult welfare categories (aged, blind, and disabled) for money payments, thus leaving only the Aid to Dependent Children (ADC) program as a State welfare program. In 1976, Virginia exercised an option allowing its eligibility criteria to be more restrictive in certain areas than SSI, so that all SSI recipients are not automatically eligible for Medicaid. Accordingly, ADC and some SSI recipients are recipients of Medicaid, as well as those persons who are medically needy and "categorically related."

On July 1, 1974, Virginia converted to the Consolidated Grant System for payments to Aid to Dependent Children eligible families. In converting to the Consolidated Grant System, the State was divided into three areas with each area having a consolidated grant adapted to the cost of living for that particular area.

Because the establishment of the income level for the medically needy must be directly related to the Aid to Dependent Children money payment level, the Virginia Medical Assistance Program has established Medicaid base income levels for the same three geographic areas as shown in the following table.

ANNUAL INCOME LEVELS FOR MEDICAL ELIGIBILITY BY GROUPS AND FAMILY SIZE
BASED ON FLAT GRANT ALLOWANCES FOR ADC, FISCAL YEAR 1979

Number of Persons in Family Unit	Group I Annual Income	Group II Annual Income	Group III Annual Income
1	\$2,300	\$2,500	\$2,900
2	2,700	3,100	3,500
3	3,100	3,400	3,900
4	3,500	3,800	4,300
5	3,900	4,200	4,800
6	4,300	4,600	5,300
7	4,800	5,100	5,800
8	5,300	5,600	6,400
9	5,800	6,100	6,900
10	6,400	6,700	7,400
Each Additional Person	600	600	600

As called for in the State Plan, determination of eligibility is made by the Welfare Department. During fiscal year 1979, 354,224 different persons were enrolled for medical assistance during some period of time.

The following services were provided to recipients of the Program:

Physicians' services

Limited dental treatment for recipients under twenty-one years of age

Inpatient hospital services limited to 14 days per stay, with extension up to 21 days if medically necessary

Outpatient hospital services

Laboratory and X-ray services

Skilled and intermediate nursing home care

Home health care services

Clinic services in certified facilities

Certain pharmaceutical services when ordered by a physician
(There will be a \$.50 charge to the recipient for each prescription filled or refilled, except for family planning supplies, payable to the provider upon receipt of the drug.)

Inpatient hospital services for individuals sixty-five years of age and over in institutions for tuberculosis or mental diseases

Payment of deductible and coinsurance for health care benefits paid in part by Title XVIII (Medicare)

Emergency medical transportation

Health screening examinations for recipients under age twenty-one

Family planning services

Certain podiatry services on referral by an attending physician

Other services when preauthorized by the local health department:

1. Non-emergency medical transportation

2. Refractions and eyeglasses (There is a \$2.00 charge for all eyeglasses except those found necessary as a result of a screening examination for persons under twenty-one years of age. There is a \$.50 charge for all repairs. All copayments to the providers will be made upon receipt of the eyeglasses.)

3. Ostomy supplies
4. Oxygen and respiratory equipment
5. Dialysis equipment and supplies necessary for home treatment

UNITS OF SERVICE FOR WHICH MEDICAL VENDOR PAYMENTS WERE MADE
FISCAL YEAR 1979

Services	Number
Days Care in General Hospitals	418,723
Days Care in Mental Hospitals	23,215
Hospital Outpatient and Clinic Visits	352,837
Days Care in Skilled Nursing Homes	192,277
Days Care in Intermediate Care Facilities	4,215,032
Days Care in Intermediate Care Facilities (Mental)	862,122
Physician's Visits	918,160
Number of Prescriptions	3,139,295

Federal matching funds are available to finance the Medical Assistance Program. The amount of Federal funds available to each state is based upon the average per capita income of the state. For Virginia, Federal matching funding during fiscal year 1979 was 57.01 percent for medical costs of the Program. This means that by pooling medical care expenditures for the indigent, the state of Virginia received approximately \$1.33 in Federal funds for each State dollar expended. Under the Title XIX Program, payments for services rendered are carefully reviewed and are based on an equitable return to providers of services in the community.

AVERAGE MONTHLY NUMBER OF PERSONS FOR WHOM VENDOR MEDICAL PAYMENTS
WERE MADE BY MEDICAID, FISCAL YEAR 1979

Eligibility Category	Number
Total Number of Persons	133,738
Aged Persons	38,458
Blind Persons	855
Disabled Persons	24,399
Persons in Families with Dependent Children	70,026

Of the estimated 136,211 children eligible for screening in the State, 35,415 received screening services in fiscal year 1979. This is approximately 7 percent more than the number of children screened in the previous year.

EMERGENCY MEDICAL AND HEALTH FACILITIES SERVICES

EMERGENCY MEDICAL SERVICES

The Bureau of Emergency Medical Services (EMS) has been given the responsibility for the planning and development of a comprehensive, coordinated Statewide emergency medical services system. The Bureau's chief responsibilities, in its beginning, were disaster preparedness and licensure and certification of ambulances and attendants based on minimum standards. These responsibilities were the outcome of requirements announced in the Virginia Ambulance Law

of 1968. Licensure of EMS agencies, ambulances and attendants is maintained through regular inspection by EMS program representatives assigned to various areas of the State. The Bureau is also responsible for developing or adopting additional standards as necessary and appropriate. At this time, adopted State minimum requirements are limited to the pre-hospital phase of emergency medical care.

Further expansion of EMS activities occurred in 1974 as the State Health Department, pursuant to General Assembly action, assumed responsibility for Statewide development of a comprehensive emergency medical care system. The Bureau of EMS became the primary agency responsible for the training, certification and re-certification of Emergency Medical Technicians, Emergency Medical Technician Lay Instructors, and Cardiac Medical Technicians.

The Bureau of Emergency Medical Services receives advice and guidance on the formulation of policy matters from the 33 member Governor's Advisory Council on EMS. The Council, which provides citizen input on State Policy, has formed working Committees to assist Bureau staff in developing policy proposals and operational alternatives for each of the EMS components. The Council has established the following task for each of the EMS components: Facilities, Legislative, Long Range Planning, Manpower and Training, Public Information and Education, and Transportation and Communications.

Revised Regulations Governing Emergency Medical Services in Virginia received final approval of the Board of Health on November 29, 1978, and became effective March 1, 1979. These Regulations upgrade the minimum requirements for ambulances, equipment and personnel staffing the vehicles. Final Board of Health approval was given on November 29, 1978, of the Regulations Governing Financial Assistance for Emergency Medical Services. These Regulations, which became effective January 1, 1979, govern the disbursement of the Rescue Squad Assistance Fund created in the session of the General Assembly. Under the Rescue Squad Assistance Act, grants (in the amount of \$25,000) were awarded to 23 rescue squads.

The Bureau of Emergency Medical Services inspects all ambulances on a semi-annual basis. New regulations, effective March 1, 1979, classify EMS vehicles into five categories, including First Response (reserved), Basic Life Support, Advanced Life Support, Neonatal Life Support, and Invalid Transport vehicles, each with specific regulations as to capabilities, specifications, equipment and supplies.

The Bureau has developed examination and certification guidelines for several pre-hospital care training programs utilizing guidelines provided by the National Highway Traffic Safety Administration. Those programs include: EMT-A; Cardiac-EMT; and EMT-A Lay Instructor. The EMT-A Curriculum is the revised and updated DOT81-hour course, and it is recognized for reciprocal certification in four neighboring states. Regulations require one EMT-A per basic life support ambulance by March 1983. Also, EMT-A's certification period was reduced from three to two years, effective March 1981. This reduction makes Virginia's program more compatible with other State programs for reciprocity purposes. At this time 60 percent of the ambulance attendants are trained as EMT-As.

The Cardiac-EMT program is an intermediate level course between EMT-A and EMT-Paramedics. In May 1978, that program was revised and modified to cover the six modules and module fifteen of the National Paramedic Program. All Cardiac-EMTs are associated with ambulance agencies.

The EMT-A Lay Instructor program begun in 1974, is structured along the lines of the program developed by Dunlap and Associates for the Department of Transportation. The program was developed to serve Virginia's needs for Lay Instructors.

One other important achievement has been the development of curriculum standards and certification procedures for the EMT-Paramedic Program. The IV-EMT and Shock Trauma Technician are two additional "intermediate" programs for which program guidelines and procedures were developed and approved by the State Advanced Life Support Subcommittee and Manpower Training Committee of the State EMS Advisory Council. The Bureau has certified this year, at least 80 EMT Lay Instructors, and is on its way to increasing the percentage of ambulance attendants certified as EMT's to 75 percent by 1980.

EMERGENCY MEDICAL SERVICES
INVENTORY SUMMARY AS OF JUNE 30, 1979

Category	Number	Percent
<u>EMS AMBULANCE AGENCIES, BY AFFILIATION - TOTAL</u>	<u>408</u>	<u>100.0</u>
Commercial	45	11.0
Fire/Rescue	46	11.3
Funeral	41	10.1
Governmental	12	2.9
Hospital	11	2.7
Volunteer	253	62.0
<u>AGENCY COMMUNICATIONS</u>		
Central Dispatch	266	65.2
911 emergency telephone system	24	5.9
<u>TRAINED PERSONNEL - TOTAL (Unduplicated)</u>	<u>10,722</u>	
Training level:		
Advanced First Aid	10,722	100.0
EMT-As	6,395	59.6
Cardiac-EMTs	738	6.9
Lay Instructors	359	3.3
I.V. Technicians	387	3.6
Shock Trauma Technicians	249	2.3
EMT Paramedic	18	0.2
<u>AMBULANCES BY DESIGN - TOTAL</u>	<u>1,172</u>	<u>100.0</u>
Custom Built	20	1.7
Carry-All (Standard)	152	13.0
Carry-All (Hi-Rise)	194	16.5
Vans	402	34.3
Station Wagons	23	2.0
Modular	334	28.5
Hearse/Conversion Units	47	4.0
<u>AGENCY AMBULANCES</u>		
Ambulances in compliance (State)	1,172	100.0
Ambulances in compliance (Federal)	289	24.7
Ambulances with two-way radio	922	78.7
Ambulances to hospital two-way radio	575	49.1
<u>COMMUNITY COLLEGES WITH BUREAU OF EMS</u>	<u>20</u>	

EMERGENCY MEDICAL SERVICES
SUMMARY OF STATEWIDE TRAINING CERTIFICATION, FISCAL YEAR 1979

Training Period	EMT-A		Cardiac-EMT		Lay Instructor		Paramedics
	Certi- fied	Re-Cer- tified	Certi- fied	Re-Cer- tified	Certi- fied	Re-Cer- tified	Certified
<u>TOTAL</u>	<u>3,771</u>	<u>1,166</u>	<u>317</u>	<u>76</u>	<u>79</u>	<u>125</u>	<u>18</u>
7/1/78-9/30/78	579	108	149	4	17	100	
10/1/78-12/31/78	1,150	239	56	28	20		
1/1/79-3/31/79	991	377	96	21			
4/1/79-6/30/79	1,051	442	16	23	42	25	18

Planning and implementation for the 911 emergency phone number is underway in all major population centers in Virginia. Nine-one-one presently serves over 568,000 persons. This will be increased by 917,000 persons in 1980. Active telephone industry and local government planning for 911 is underway in other localities with a total population of nearly 2,000,000 persons.

The Communications Section of the Bureau has provided technical assistance to EMS councils, and city and county governments in coordinating license procedures and EMS communication planning. Directory listings of hospital EMS communications and access codes have been developed to provide ambulances easier access to hospital facilities. A multi-frequency UHF High Band temporary base station has been installed in the communications van of the Virginia Office of Emergency and Energy Services (OEES) for on-scene coordination of large scale emergencies. A UHF system has been implemented in the "Quiet Zone", and over 40 agencies have been licensed by FCC to operate on the search and rescue coordination frequency 155.205 MHz for mutual aid purposes.

Agreements have been made with OEES to assist local ambulance agencies and rescue squads if fuel supplies are jeopardized. With OEES and Regional EMS Councils, the Bureau has developed guidelines and standards for the conduct of local disaster exercises. The Bureau also continues to act as agency coordinator for Emergency Health services in the event of a disaster. To enable motorists to identify the exact location and the quickest route to an emergency medical facility, the Bureau has begun a program of hospital highway signs.

Standard patient record keeping has been initiated on a Statewide basis, through the development and distribution of ambulance agency run sheets, and through the State's efforts to educate its users on how to fill the Basic Life Support (BLS) record accurately. Seventy MAST-Trousers have been distributed to EMS agencies throughout the State, with the requirement that evaluation reports be submitted to this Bureau. The data from the reports will allow a comparison of MAST-Trousers use in both basic and advance life support settings.

To provide public information and education, the Bureau of EMS has published and distributed six issues of its bi-monthly newsletter (2,000 copies each), an "Auto Crash Life Saving Facts" wallet card and brochures, over 8,000 telephone stickers with phone numbers of local ambulance services, 15,000 copies of the Virginia Health Bulletin, which features EMS in its March 1979 issue, and Poison Prevention week posters to 135 local health departments, 90 hospitals and other organizations. In September 1978, the Bureau sponsored a booth at the State Fair with emphasis placed on "How to Access the System."

MEDICAL AND NURSING FACILITIES SERVICES

Programs in the Bureau of Medical and Nursing Facilities Services are divided into two primary areas of responsibility: (1) licensing and inspection of hospitals and nursing homes; and (2) certification of providers participating in the Medicare and Medicaid programs.

In 1947, the General Assembly of Virginia recognized the vital need and a responsibility to the citizenry to establish a hospital licensing and inspection program. Enactment of Chapter 16, Title 32, Code of Virginia was the result. Prior to that time, health care institutions had been established and operated by anyone. In many instances their establishment was without regard for adequate health, safety and welfare standards to protect the patients. The Board of Health promulgated rules and regulations setting forth minimum licensure standards by which existing institutions and all new institutions must operate.

The term "hospital" as presently used in the health code is a generic term which covers a variety of institutions and services, including short-stay general hospitals, long-stay chronic disease hospitals, tuberculosis hospitals, children's hospitals and other special hospitals, such as nursing and convalescent homes. The term was recently broadened to also include outpatient surgical centers, abortion clinics and home health agencies.

LICENSED HOSPITALS AND NURSING HOMES WITH NUMBER OF BEDS VIRGINIA, 1978

Type of Facility	Number of Facilities	Number of Beds
TOTAL	280	39,852
General Hospitals	112	23,131
Alcoholic Hospitals		
Tuberculosis Hospitals	1	262
Eye, Ear, Nose and Throat Hospitals	3	131
Christian Science	1	36
Self Care		
Rehabilitation	1	76
Nursing Homes	153	16,216
Abortion Clinics	5	
Outpatient Surgery Clinics	4	

In 1966, the State Health Department entered into an agreement with the Federal agencies to administer the program to certify all facilities that participate in the Medicare program (Title XVIII). In 1969, the program was expanded to include all facilities participating in the Medicaid program (Title XIX). Federal funds are made available on a cost basis to administer both programs.

The certification of health care facilities has expanded since 1966 to include providers of hospital, skilled nursing care, intermediate nursing care, intensive psychiatric treatment, home health agency, independent laboratory, end-stage renal dialysis, outpatient X-ray, outpatient speech and/or physical therapy, rural health clinic and independent physical therapy services.

MEDICARE AND MEDICAID CERTIFICATION, FISCAL YEAR 1978

Type of Certification	Certified Facilities	Certified Beds*
TOTAL	416	41,733
General Hospitals	112	23,131
Psychiatric Hospitals	14	1,267
Skilled Care Facilities	13	1,327
Intermediate Care Facilities	136	13,047
Skilled/Intermediate Care Facilities	33	2,961
Home Health Agency Regions	43	
Independent Laboratories	26	
Outpatient Physical Therapy Service		
Outpatient Speech and Physical Therapy Service	2	
Outpatient Speech Therapy Service	1	
End-Stage Renal Dialysis Units	26	
Independent Physical Therapy Practitioners	9	
Portable Supplier of X-ray	1	

*Includes beds licensed and/or operated by the Department of Mental Health and Mental Retardation.

In order for beneficiaries to receive care under the Medicare or Medicaid programs, those services must be provided by a certified facility or service.

The reasons for the enforcement of minimum State and Federal standards are to assure proper maintenance, operation and construction of health care facilities and to broaden the concepts of persons responsible for operating facilities by focusing their attention on problem areas and techniques which are faulty. Standards are also used as an educational tool for institution personnel and the general public.

The licensing and certification activities provide a coordinated service of technical assistance, evaluation, education and consultation. The inspections of health care facilities are made on-site. After each health care inspection, an indepth evaluation of the findings is made and a report prepared and mailed to the institution. The report includes deficiencies noted, any recommendations for correction, and a request for the institution to notify the Department within ten (10) days of progress toward correction or changes made to correct any cited deficiencies. Follow-up inspections are made to determine that continuing compliance with State rules and regulations and Federal regulations are sufficient to continue licensing and certification of the institution or service. Special investigations of complaints are made when they are applicable to the delivery of health services. These are handled on a case-by-case basis and are not part of the routine on-site inspection process.

In addition to on-site health care inspections, the Bureau is also responsible for the review and approval of all architectural plans and specifications for the construction of new facilities, additions to, modernization and renovation of, and replacement of existing facilities. Review and consultation with project architects are periodically conducted from the time of preliminary drawings through working drawings. Construction cannot proceed until working drawings have been approved for compliance with State licensing rules and regulations.

Upon completion of any type of construction project, evaluations of the physical plant, staffing patterns, equipment and supplies, and operational and patient care policies are made prior to issuing an initial license to operate. All licenses are renewable annually on the first of January. After initial licensure, the routine inspection procedures are followed to assure that facilities are properly maintained and operated before the license is renewed.

The Civil Rights Compliance Program (Title VI) for hospitals and nursing homes was initiated in 1970. The Bureau is responsible for annual inspections and evaluations to determine each facility's compliance with the Act. Inspections are required for all facilities which have received Federal funds from any source. Monthly reports are prepared on compliance status of each facility and forwarded to the Regional Civil Rights Office for review.

The rapid growth and continued change in facilities providing health and medical care has made consultation a major responsibility of this Bureau. The range of consultative services spreads from nursing care to architectural review. The demand and necessity for this service far exceeds the original concept. The knowledge and experience of the personnel of this Bureau must include all aspects of health and medical care operation and construction. Communities, organizations, and institutions themselves demand that this Bureau be familiar with and able to provide the consultation needed in any given situation.

FACILITIES REQUIRED TO COMPLY WITH THE CIVIL RIGHTS ACT (TITLE VI) OF 1964

Type of Facility	Number of Facilities	Number of Beds
TOTAL	264	38,772
General and Special Hospitals	112	23,131
(Long Term Care Units of Hospitals)*	(15)	(995)
Nursing Homes**	138	14,374
Psychiatric Hospitals with IPT*** Beds	14	1,267

Includes skilled care and intermediate care units and excludes beds licensed and/or operated by Department of Mental Health and Mental Retardation

* Long-term units included with total licensed capacity of hospitals.

**15 Nursing Homes non-participating in Medicare/Medicaid, with 1,433 beds.

***Intensive Psychiatric Treatment

TABLE 77
CLINIC ACTIVITIES BY AGE OF PATIENT FOR MATERNAL, FAMILY PLANNING AND CHILD HEALTH PROGRAMS
VIRGINIA, FISCAL YEAR 1979

Type Patient	Total			Under 1			1-4			5-17			18-20			21-44			45 and Over			Age Unknown		
	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.
Maternal	18,703	24,274	103,772				3,864	4,893	18,920	6,073	7,831	32,954	8,620	11,369	51,309	53	70	240	93	111				
First Trimester	7,710	8,797	13,829				1,560	1,772	2,641	2,478	2,806	4,347	3,616	4,154	6,730	22	27	32	34	38				
Second Trimester	6,977	8,977	30,755				1,530	1,900	5,923	2,299	2,916	9,791	3,118	4,126	14,913	9	12	45	21	23				
Third Trimester	2,198	4,019	48,809				451	771	8,621	685	1,280	15,518	1,042	1,938	24,455	9	13	113	11	17				
TOTAL	16,885	21,793	93,393				3,547	4,443	17,185	5,462	7,002	29,656	7,776	10,218	46,098	40	52	190	66	78				
Post Partum	1,818	2,481	10,379				323	450	1,735	611	829	3,298	844	1,151	5,211	13	18	50	27	33				
Family Planning	34,106	90,387	181,427				10,438	18,719	35,842	9,606	23,582	48,649	13,554	46,254	94,022	412	1,610	2,448	96	222				
Pill	20,685	61,993	133,592				7,405	14,807	30,060	6,415	18,302	39,557	6,765	28,546	63,283	53	193	359	47	145				
IUD	1,551	6,928	14,371				130	348	821	296	1,027	2,391	1,099	5,310	10,721	19	229	398	7	14				
Other Contraceptive	4,349	10,802	17,930				789	1,104	1,739	881	1,616	2,875	2,543	7,490	12,474	122	563	795	14	29				
No Contraceptive	7,521	10,664	15,534				2,114	2,460	3,222	2,014	2,637	3,826	3,147	4,908	7,544	218	625	896	28	34				
Child Health	68,952	113,961	228,915	18,252	24,045	61,210	32,187	51,366	71,752	559	905	1,595							300	695				1,044

*Clinics included are those listed in the table below.

TABLE 78
CLINIC ACTIVITIES FOR MATERNAL, FAMILY PLANNING AND CHILD HEALTH PROGRAMS
VIRGINIA, FISCAL YEAR 1979

Type of Clinic	Number Sessions	New Patients by Program			Persons Served by Program			Total Visits by Program		
		Maternal	Family Planning	Child Health	Maternal	Family Planning	Child Health	Maternal	Family Planning	Child Health
TOTAL	43,582	18,703	34,106	68,952	24,274	90,387	113,961	103,772	181,427	228,915
01 Maternal & Child Health	2,270	2,056	260	5,017	2,649	537	7,840	10,304	1,317	26,261
02 Maternal Health	4,578	10,020	466	395	12,929	715	465	67,133	1,013	1,177
03 Family Planning	9,014	2,062	25,397	288	2,879	70,552	382	7,300	142,787	580
04 Gynecological	851	373	332	258	429	509	326	1,087	884	464
05 Maternal, Family Planning	2,557	2,738	5,152	86	3,512	14,044	126	14,250	23,353	319
10 Pediatric	9,531			35,101			64,573			136,188
11 Preschool	810			5,621			6,675			9,926
13 Work Permits	314			2,067			2,116			2,135
14 Medicaid Screening	1,568			6,215			11,401			12,827
20 Sickle Cell	38			199			206			210
85 Family Practice	839	2	16	335	24	104	1,337	187	352	3,199
86 General Medical	6,042	274	283	6,889	350	686	9,801	1,059	1,943	19,669
93 Miscellaneous	5,170	1,178	2,200	6,481	1,502	3,240	8,713	2,452	9,778	15,960

**Maternal and Family Planning patients in Child Health clinics are not included.

TABLE 79 - SUMMARY OF CRIPPLED CHILDREN ACTIVITIES, VIRGINIA, FISCAL YEAR 1979

ACTIVITY	All Programs	Orthopedics	Facial Deformity	Pediatric Cardiology	Eye Surgery	Pediatric Surgery	Pediatric Urology	Burn	Neuro-Surgery	Plastic Surgery	Defective Hearing	Neurology	Cystic Fibrosis	Hemophilia	Pediatric Endocrinology
CASES ON STATE REGISTER															
At beginning of year	37,593	23,293	588	3,535	1,248	756	1,014	63	518	549	2,387	3,283	227	71	61
At end of year	38,997	23,903	600	3,626	1,353	868	958	67	536	560	2,612	3,474	247	91	102
Added during year	8,275	4,083	87	1,017	470	297	268	18	83	125	873	830	45	31	48
Removed during year	6,871	3,473	75	926	365	185	324	14	65	114	648	639	25	11	7
Crippling condition cured or maximum benefits obtained	919	439	10	72	27	74	26	1	4	10	62	193	3	1	1
Age 21 reached	316	73	8	91	14	2	14	1	1	4	33	73	3	1	3
Residence established in another state	338	108	7	47	22	7	19	1	6	10	54	47	6	1	1
Death of registrant	73	13	1	32	1	1	3	3	5	2	10	10	2	1	1
Registration in error	789	249	3	312	58	7	8	8	3	88	108	37	3	4	3
Other	3,497	1,782	47	271	240	91	252	8	45	3	382	274	10	1	1
Consultation only	939	809	101	101	3	3	2	1	1	1	8	5	1	5	3
Cases actively served during year	22,538	9,133	474	3,178	1,376	509	938	46	375	467	2,648	3,000	241	97	86
CLINIC SERVICES															
Cases# actively served in clinics	21,728	8,937	460	2,986	1,334	484	892	45	367	450	2,409	2,955	237	90	82
Physical therapy clinics	979	977	1	2,985	1,334	484	891	45	367	448	2,406	2,953	237	90	82
BCC clinics	21,567	8,860	385	18	1,334	484	891	45	367	448	2,406	2,953	237	90	82
Dental clinics	374	95	187	18	1,334	484	891	45	367	448	2,406	2,953	237	90	82
Number of visits	43,425	20,369	1,310	4,142	2,054	805	1,901	85	577	846	4,727	5,440	863	175	131
Physical therapy clinics	3,765	3,762	1	4,090	2,054	805	1,892	85	577	759	4,679	5,348	861	175	131
BCC clinics	38,405	16,433	516	52	2,054	805	1,892	85	577	759	4,679	5,348	861	175	131
Dental clinics	1,255	174	793	52	2,054	805	1,892	85	577	759	4,679	5,348	861	175	131
Clinic centers	224	95	5	12	5	4	5	1	4	6	9	15	5	3	3
Physical therapy clinics	95	95	5	12	5	4	5	1	4	6	9	15	5	3	3
BCC clinics	126	49	5	12	5	4	5	1	4	6	9	15	5	3	3
Dental clinics	3	3	5	12	5	4	5	1	4	6	9	15	5	3	3
Clinic sessions	2,789	942	40	438	122	158	167	11	61	90	238	375	144	30	25
Physical therapy clinics	942	942	40	438	122	158	167	11	61	90	238	375	144	30	25
BCC clinics	2,788	889	40	438	122	158	167	11	61	90	238	375	144	30	25
Dental clinics	59	59	40	438	122	158	167	11	61	90	238	375	144	30	25

*Includes Orthopedic, Cerebral Palsy, Child Amputee, Scoliosis, and Rheumatoid Arthritis

**Includes Rheumatic Fever and Congenital Heart

***Includes child and adult cases and activities

#Unduplicated count

(continued)

TABLE 79 - SUMMARY OF CRIPPLED CHILDREN ACTIVITIES, VIRGINIA, FISCAL YEAR 1979 (continued)

Activity	All Programs	Orthopedics	Facial Deformity	Pediatric Cardiology	Eye Surgery	Pediatric Surgery	Pediatric Urology	Burn	Neuro Surgery	Plastic Surgery	Defecative Hearing	Neurology	Cystic Fibrosis	Hemophilia	Pediatric Endocrinology
HOSPITAL CARE															
In-patient care															
Cases	1,773	306	108	224	146	121	122	17	62	94	356	191	12	11	3
Admissions	1,985	369	126	297	157	126	135	18	80	102	337	204	15	15	4
Days' care	13,733	3,600	903	2,463	412	1,144	866	416	929	796	598	1,128	147	294	37
Out-patient (Hospital or doctor's office)															
Cases	52	3			8	7	1			1	32				
Dentist's office (Hospital care)															
Cases	9	3		1	1						3	1			
AUXILIARY SERVICES (cases)#															
Appliances	2,583	2,984	132	1,791	446	20	282	2	45	18	826	670	140	50	66
Tests/Exams	2,648	1,596	94		440	16	85	2	1	4	401	3	5	1	
Contractual therapy##	4,867	1,584	35	1,668	5	3	249		29	8	638	510	73	9	56
Drugs	89	31	6							2	48	1	1	1	
	849	29	1	224	5	11	136	1	16	6	63	172	108	48	29

*Includes Orthopedic, Cerebral Palsy, Child Amputee, Scoliosis, and Rheumatoid Arthritis

**Includes Rheumatic Fever and Congenital Heart

***Includes child and adult cases and activities

#Unduplicated count

##Occupational, physical, speech, hearing, orthoptic, and other types of therapy

TABLE 80
HOME HEALTH SERVICES
NUMBER OF PATIENTS, VISITS BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, FISCAL YEAR 1979

Planning District/ City or County	Number of Patients	Visits	Visits Per Patient	Planning District/ City or County	Number of Patients	Visits	Visits Per Patient
STATE OF VIRGINIA	9,584	216,957	22.6				
District 1	238	5,157	21.7	District 12	355	5,647	15.9
Lee	78	1,837	23.6	Franklin	43	739	17.2
Scott	81	1,741	21.5	Henry	77	1,247	16.2
Wise	65	1,275	19.6	Patrick	47	758	16.1
Norton	14	304	21.7	Pittsylvania	90	1,209	13.4
District 2	290	6,939	23.9	Danville	69	1,332	19.3
Buchanan	43	838	19.5	Martinsville	29	362	12.5
Dickenson	49	966	19.7	District 13	94	2,217	23.6
Russell	92	2,018	21.9	Brunswick	22	707	32.1
Tazewell	106	3,117	29.4	Halifax	31	706	22.8
District 3	692	18,413	26.6	Mecklenburg	41	804	19.6
Bland	17	361	21.2	South Boston			
Carroll	71	1,304	18.4	District 14	171	2,962	17.3
Grayson	36	668	18.6	Amelia	22	195	8.9
Smith	188	5,350	28.5	Buckingham	53	640	12.1
Washington	162	4,506	27.8	Charlotte	9	348	38.7
Wythe	62	1,683	27.2	Cumberland	28	574	20.5
Bristol	132	4,221	32.0	Lunenburg	5	37	7.4
Galax	24	320	13.3	Nottoway	38	836	22.0
District 4	185	4,000	21.6	Prince Edward	16	332	20.8
Floyd	17	229	13.5	District 15	818	15,024	18.4
Giles	29	670	23.1	Charles City Co.	15	385	25.7
Montgomery	68	1,568	23.1	Chesterfield	68	1,185	17.4
Pulaski	49	952	19.4	Goochland	23	501	21.8
Radford	22	581	26.4	Hanover	69	970	14.1
District 5	538	16,834	31.3	Henrico	90	1,453	16.1
Alleghany	39	785	20.1	New Kent	12	154	12.8
Botetourt	52	1,710	32.9	Powhatan	10	54	5.4
Craig	5	232	46.4	Richmond City	531	10,322	19.4
Roanoke	83	3,534	42.6	District 16	138	2,302	16.7
Clifton Forge	26	531	20.4	Caroline	43	635	14.8
Covington	30	718	23.9	King George	15	302	20.1
Roanoke City	252	7,018	27.9	Spotsylvania	26	349	13.4
Salem	51	2,306	45.2	Stafford	29	548	18.9
District 6	228	5,160	22.6	Fredericksburg	25	468	18.7
Augusta	54	822	15.2	District 17	154	3,301	21.4
Bath	9	376	41.8	Lancaster	48	660	13.8
Highland	1	6	6.0	Northumberland	62	1,079	17.4
Rockbridge	21	661	31.5	Richmond	20	615	30.8
Rockingham	31	724	23.4	Westmoreland	24	947	39.5
Buena Vista	11	118	10.7	District 18	171	3,449	20.2
Harrisonburg	12	485	40.4	Essex	24	536	22.3
Lexington	7	89	12.7	Gloucester	35	505	14.4
Staunton	57	925	16.2	King and Queen	25	392	15.7
Waynesboro	25	954	38.2	King William	34	631	18.6
District 7	817	3,233	14.9	Mathews	26	831	32.0
Clarke	21	267	12.7	Middlesex	27	554	20.5
Frederick	57	706	12.4	District 19	366	12,923	35.3
Page	25	381	15.2	Dinwiddie	36	1,219	33.9
Shenandoah	19	366	19.3	Greensville	21	621	29.6
Warren	40	777	19.4	Prince George	17	292	17.2
Winchester	55	736	13.4	Surry	24	903	37.6
District 8	1,172	31,030	26.5	Sussex	36	796	22.1
Arlington	225	7,936	35.3	Colonial Heights	24	941	39.2
Fairfax	434	9,965	23.0	Emporia	11	349	31.7
Loudoun	169	6,262	37.1	Hopewell	42	1,723	41.0
Prince William	71	1,896	26.7	Petersburg	155	6,079	39.2
Alexandria	244	4,336	17.8	District 20	1,723	34,160	19.8
Fairfax City	15	197	13.1	Isle of Wight	77	1,049	13.6
Falls Church	14	438	31.3	Southampton	65	870	13.4
Manassas	Included with Pr. Wm. Co.			Chesapeake	381	9,165	24.1
Manassas Park	Included with Pr. Wm. Co.			Franklin City	34	505	14.9
District 9	215	5,658	26.3	Norfolk	333	7,673	23.0
Culpeper	85	2,015	23.7	Portsmouth	413	7,453	18.1
Fauquier	36	717	19.9	Suffolk	142	2,757	19.4
Madison	39	1,156	29.6	Virginia Beach	278	4,688	16.9
Orange	50	1,673	33.5	District 21	828	16,131	19.5
Rappahannock	5	97	19.4	James City Co.	64	1,165	18.2
District 10	487	8,739	17.9	York	65	1,031	15.9
Albemarle	90	1,680	18.7	Hampton	200	4,711	23.6
Fluvanna	46	545	11.9	Newport News	428	7,324	17.1
Greene	19	431	22.7	Poquoson	14	850	60.7
Louisa	56	710	12.7	Williamsburg	57	1,050	18.4
Nelson	79	1,674	21.2	District 22	310	9,531	30.8
Charlottesville	197	3,699	18.8	Accomack	238	7,131	30.0
District 11	194	4,147	21.4	Northampton	72	2,400	33.3
Amherst	20	367	18.4				
Appomattox	21	296	14.1				
Bedford	32	1,001	31.3				
Campbell	45	1,040	23.1				
Bedford City	9	317	35.2				
Lynchburg	67	1,126	16.8				

TABLE 81 - PUBLIC HEALTH NURSING VISITS BY PROGRAM BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
SHOWING PERCENTAGE CHANGE OVER PREVIOUS YEAR, VIRGINIA, FISCAL YEAR, 1979

Planning District/ City or County	Total Visits			Program										Other Patient Contacts
	1979	1978	Percent Change	Maternal	Child Health	Family Plan- ning	Crip- pled Child- ren	Chronic Disease	Ment. Ill./ After- care	Tuber- culo- sis	Home Health Charge- able	Non- Charge- able		
STATE OF VIRGINIA	671,688	669,846	0.3	33,825	163,707	56,369	62,240	36,462	13,537	36,650	211,914	39,697	17,287	
District 1	7,505	8,070	-7.0	96	39	139	266	12	31	155	5,408	1,333	26	
Lee	2,823	3,189	-11.5	6	16	75	154	2	15	85	1,978	488	4	
Scott	2,334	2,500	-6.6	85	3	48	37	5	3	49	1,733	361	10	
Wise	1,989	2,272	-12.5	2	10	7	5		3	2	1,489	468	3	
Norton	359	109	229.4	3	10	9	70	5	10	19	208	16	9	
District 2	13,124	13,972	-6.1	74	333	613	1,557	555	274	597	7,310	1,620	91	
Buchanan	2,451	3,756	-34.7	18	131	129	582	37	67	165	835	473	14	
Dickenson	2,204	2,337	-5.7	31	29	159	189	135	51	106	986	516	2	
Russell	3,423	2,880	18.9	9	56	172	285	71	102	82	2,316	308	22	
Tazewell	5,046	4,999	0.9	16	117	153	501	312	154	244	3,173	323	53	
District 3	36,347	30,638	18.6	1,308	1,839	4,031	3,186	628	230	562	18,721	5,468	374	
Bland	831	1,566	-46.9		49	67	338	46		13	300	18		
Carroll	4,049	3,301	22.7	355	389	546	529	29	13	133	1,302	688	65	
Grayson	2,440	1,667	46.4	164	310	439	549	37	29	82	677	100	53	
Smyth	8,131	7,017	15.9	172	143	744	505	112	2	78	5,674	632	69	
Washington	9,395	8,196	14.6	97	285	624	335	257	124	94	4,734	2,806	39	
Wythe	3,933	2,680	46.8	148	165	832	456	69	10	83	1,671	472	27	
Bristol	5,790	4,917	17.8	219	309	254	286	37	39	56	4,072	493	25	
Galax	1,778	1,294	37.4	153	189	525	188	41	13	23	291	259	96	
District 4	11,374	9,982	13.9	535	1,773	1,180	1,469	402	54	419	3,972	1,223	327	
Floyd	467	390	19.7	14	25	61	77	50	2	22	159	55	2	
Giles	2,185	2,251	-2.9	20	617	96	238	138	2	84	754	162	74	
Montgomery	4,039	3,149	28.3	173	387	399	621	35	9	199	1,563	536	117	
Pulaski	3,134	2,939	6.6	183	673	385	414	29	26	57	914	345	108	
Radford	1,549	1,253	23.6	145	71	239	119	150	15	57	582	125	46	
District 5	33,359	33,705	-1.0	1,051	3,721	2,085	3,033	1,606	141	1,714	16,891	2,687	430	
Alleghany	1,226	1,093	12.2	18	37	36	113	84	6	34	766	119	13	
Botetourt	2,328	2,051	13.5	77	115	70	94	63	4	28	1,537	330	10	
Craig	692	487	42.1	39	25	59	64	124	37	22	238	27	57	
Roanoke	7,481	6,876	8.8	291	1,698	256	383	434	38	108	3,575	644	54	
Clifton Forge	998	915	9.1	35	110	55	45	76	6	23	529	91	28	
Covington	1,292	1,347	-4.1	20	51	59	134	92	27	20	769	104	16	
Roanoke City	14,736	16,720	-11.9	174	1,188	1,282	1,991	566	20	1,410	7,128	766	211	
Salem	4,606	4,216	9.3	397	497	268	209	167	3	69	2,349	606	41	
District 6	34,755	37,498	-7.3	2,891	6,533	7,497	4,714	1,039	3,871	1,365	4,849	1,425	571	
Augusta	6,723	7,488	-10.2	704	1,576	1,228	805	195	774	273	753	295	120	
Bath	1,309	1,355	-3.4	14	154	17	394	47	163	54	242	208	16	
Highland	693	1,063	-34.8	74	113	71	188	70	158	6	11	1		
Rockbridge	3,297	3,350	-1.6	197	296	1,194	571	49	158	50	635	134	13	
Rockingham	6,722	6,472	3.9	742	1,566	1,017	1,374	243	312	486	705	117	160	
Buena Vista	1,016	1,075	-5.5	87	92	513	63	26	60	25	133	9	8	
Harrisonburg	3,166	3,369	-6.0	242	1,064	718	228	142	85	158	412	61	56	
Lexington	1,038	1,487	-30.2	48	96	306	259	4	89	27	144	64	1	
Staunton	6,351	7,455	-14.8	469	1,005	1,238	503	169	1,389	204	902	307	165	
Waynesboro	4,440	4,384	1.3	314	571	1,195	329	94	683	82	912	229	31	
District 7	14,522	16,395	-11.4	1,038	1,813	1,717	1,526	883	1,416	1,165	3,326	973	655	
Clarke	1,238	1,311	-5.6	130	96	107	123	46	119	136	304	54	123	
Frederick	1,930	2,149	-10.2	217	60	75	322	30	186	97	745	139	59	
Page	1,981	1,884	5.1	182	339	190	231	123	213	181	389	2	131	
Shenandoah	3,071	3,732	-17.7	121	209	450	326	485	424	538	321	56	141	
Warren	3,740	4,204	-11.0	191	1,008	366	311	133	196	84	777	579	95	
Winchester	2,562	3,115	-17.8	197	101	529	213	66	278	129	790	143	116	
District 8	171,326	191,645	-10.6	6,872	95,234	4,034	5,814	11,775	651	7,898	30,672	4,963	4,008	
Arlington	21,678	22,271	-2.7	1,799	3,841	615	281	4,499	115	1,184	7,896	1,153	295	
Fairfax	105,005	122,180	-14.1	2,298	76,939	1,499	2,087	2,560	226	4,540	10,201	2,540	2,115	
Loudoun	9,496	9,002	5.5	460	1,225	90	621	860	16	165	5,795	163	101	
Prince William	8,942	8,646	3.4	585	2,078	274	1,248	665	57	991	1,396	498	1,150	
Alexandria	18,609	18,481	0.7	1,502	6,545	1,396	1,400	2,039	205	745	4,239	296	242	
Fairfax City	2,564	6,183	-58.5	68	2,169	24	26	35	3	46	167	25	1	
Falls Church	3,458	3,136	10.3	88	2,188	132	24	382	24	89	450	75	6	
Manassas	1,294	1,417	-8.7	49	206	2	86	99	4	118	509	207	14	
Manassas Park	280	329	-14.9	28	43	2	41	36	1	20	19	6	84	
District 9	19,078	14,965	27.5	1,022	3,160	1,163	2,909	1,953	464	1,627	5,135	1,020	625	
Culpeper	5,136	4,313	19.1	176	348	239	817	588	87	430	1,812	499	140	
Fauquier	6,301	4,599	37.0	480	1,707	394	1,102	499	42	882	618	238	339	
Madison	3,074	1,788	71.9	61	602	326	296	358	118	151	1,045	87	30	
Orange	3,638	3,458	5.2	289	256	152	533	401	162	117	1,542	141	45	
Rappahannock	929	807	15.1	16	247	52	161	107	55	47	118	55	71	
District 10	30,640	26,377	16.2	1,052	8,112	973	3,378	3,693	878	689	9,371	1,746	748	
Albemarle	11,470	6,278	82.7	325	6,041	329	909	984	87	153	2,112	361	169	
Fluvanna	2,228	1,047	112.8	41	228	60	323	341	96	81	601	304	153	
Greene	1,070	1,429	-25.1	30	60	43	184	91	53	16	509	60	24	
Louisa	2,470	3,279	-24.7	44	289	65	450	399	205	75	746	93	104	
Nelson	3,764	3,657	2.9	167	574	233	376	514	114	56	1,487	209	34	
Charlottesville	9,638	10,687	-9.8	445	920	243	1,136	1,364	323	308	3,916	719	264	
District 11	14,430	10,165	42.0	660	1,278	3,107	2,024	1,094	136	232	4,465	728	706	
Amherst	2,090	1,784	17.2	129	457	332	383	271	54	35	333	25	71	
Appomattox	675	489	38.0	32	28	41	110	43	6	20	352	42	1	
Bedford	4,302	3,040	41.5	195	202	1,663	571	87	17	51	1,174	293	49	
Campbell	2,838	1,563	81.6	167	231	284	492	174	56	39	1,096	202	97	
Bedford City	444	170	161.2	16	22	120	19	5	3	3	240	16	3	
Lynchburg	4,081	3,119	30.8	121	338	667	449	514	3	84	1,270	150	485	

TABLE 81 - PUBLIC HEALTH NURSING VISITS BY PROGRAM BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
SHOWING PERCENTAGE CHANGE OVER PREVIOUS YEAR, VIRGINIA, FISCAL YEAR 1979 (continued)

Planning District/ City or County	Total Visits			Program										Home Health		Other Patient Contacts
	1979	1978	Percent Change	Maternal	Child Health	Family Planning	Crip- pled Child- ren	Chronic Disease	Ment. Ill./ After- care	Tuber- culo- sis	Charge- able	Non- Charge- able				
STATE OF VIRGINIA	671,688	669,846	0.3	33,825	163,707	56,369	62,240	36,462	13,537	36,650	211,914	39,697	17,287			
District 12	22,302	17,171	29.9	1,916	2,202	2,568	3,575	2,045	334	1,435	5,827	2,043	357			
Franklin	2,313	1,540	50.2	90	205	214	292	166	67	143	736	363	37			
Henry	2,933	1,945	50.8	21	366	140	491	117	3	179	1,253	349	14			
Patrick	2,713	1,498	81.1	46	192	216	239	678	31	100	840	325	46			
Pittsylvania	6,311	5,156	22.4	873	864	930	990	537	160	379	1,164	266	142			
Danville	6,771	6,169	9.8	855	468	912	1,364	514	69	516	1,376	589	108			
Martinsville	1,261	863	46.1	31	107	156	199	33	4	118	458	151	4			
District 13	6,793	6,682	1.7	503	326	897	1,461	445	55	542	1,942	485	127			
Brunswick	1,755	1,602	9.6	234	148	243	374	73	15	80	471	82	35			
Halifax	1,819	1,773	2.6	29	85	156	370	256	25	109	619	140	30			
Mecklenburg	3,052	3,103	-1.6	238	92	448	704	101	9	344	790	267	59			
South Boston	167	204	-18.1	2	1	50	13	15	6	9	62	6	3			
District 14	10,227	8,804	16.2	643	1,298	820	2,028	1,251	600	667	2,427	290	203			
Amelia	1,768	1,549	14.1	140	232	199	305	490	79	117	181	2	23			
Buckingham	1,736	927	87.3	43	344	126	277	52	13	82	749	26	24			
Charlotte	1,473	1,809	-18.6	72	187	87	270	80	73	141	363	166	34			
Cumberland	884	531	66.5	28	116	61	149	79	43	22	349	17	20			
Lunenburg	710	837	-15.2	120	77	53	199	52	85	70	39	14	1			
Nottoway	1,567	1,200	30.6	114	95	74	307	202	96	141	460	40	38			
Prince Edward	2,089	1,951	7.1	126	247	220	521	296	211	94	286	25	63			
District 15	59,161	61,394	-3.6	5,623	15,577	4,929	6,546	1,808	549	3,962	13,048	2,834	2,256			
Charles City Co.	1,294	1,781	-27.3	25	94	492	87	40	26	82	386	26	34			
Chesterfield	14,965	12,411	20.6	1,644	6,245	1,701	1,265	291	4	308	1,235	321	1,351			
Goochland	1,800	1,327	35.6	90	330	183	304	104	44	74	563	66	42			
Hanover	2,226	2,148	3.6	68	263	200	133	165	122	181	955	90	49			
Henrico	6,182	8,349	-26.0	705	1,440	318	1,273	251	53	193	1,565	352	32			
New Kent	780	707	10.3	18	230	135	104	60	4	25	148	50	6			
Powhatan	1,138	1,010	12.7	47	170	285	199	68	153	156	57	2	1			
Richmond City	30,776	33,661	-8.6	3,026	6,805	1,615	3,181	829	143	2,943	8,139	2,925	1,170			
District 16	12,492	13,807	-9.5	1,230	1,700	1,222	2,449	1,590	116	1,020	2,429	284	152			
Caroline	3,007	3,447	-12.8	155	362	226	693	254	40	437	657	145	36			
King George	1,055	1,269	-16.9	132	149	90	84	152	13	28	339	50	18			
Spotsylvania	3,048	3,148	-3.2	381	441	233	939	342	24	190	333	129	36			
Stafford	2,813	2,775	1.4	390	443	269	457	294	27	189	591	118	35			
Fredericksburg	2,569	3,168	-18.9	172	305	404	276	548	17	176	509	142	25			
District 17	7,815	6,571	18.9	310	312	1,392	366	970	74	251	3,128	634	375			
Lancaster	1,863	1,663	12.0	84	54	655	102	97	19	64	519	167	102			
Northumberland	2,116	1,576	34.3	97	114	195	64	219	32	51	1,003	217	114			
Richmond	1,910	1,596	19.7	64	59	272	61	411	19	64	700	126	134			
Westmoreland	1,926	1,736	10.9	65	85	270	139	243	4	62	906	124	28			
District 18	8,560	7,172	19.4	387	415	2,753	438	235	58	332	3,131	628	183			
Essex	1,256	1,402	-10.4	13	69	412	75	21	7	36	540	62	21			
Gloucester	1,696	1,567	8.2	98	87	561	143	102	14	134	427	83	47			
King and Queen	852	931	-8.5	30	94	180	35	47	9	10	413	17	17			
King William	1,370	1,038	32.0	44	105	278	81	51	1	79	611	94	26			
Mathews	1,558	1,009	54.4	60	30	536	85	9	26	11	669	107	25			
Middlesex	1,828	1,225	49.2	142	30	786	19	5	1	62	471	265	47			
District 19	29,428	27,917	5.4	1,463	2,150	4,532	1,607	808	2,710	2,056	12,199	1,171	732			
Dinwiddie	3,146	2,699	16.6	64	233	837	116	145	149	179	1,228	53	142			
Greensville	1,701	1,725	-1.4	57	89	145	198	96	294	126	530	154	12			
Prince George	1,291	1,258	2.6	72	204	301	78	89	71	100	299	30	47			
Surry	1,985	1,142	73.8	53	125	377	46	72	72	198	885	72	85			
Sussex	2,272	2,914	-22.0	45	112	678	170	65	124	154	691	137	96			
Colonial Heights	1,983	1,946	1.9	114	128	177	155	107	149	96	936	120	1			
Emporia	1,004	994	1.0	48	55	91	80	83	171	100	268	88	20			
Hopewell	5,095	4,039	26.1	399	492	1,330	166	58	180	182	1,901	240	147			
Petersburg	10,951	11,200	-2.2	611	712	596	598	93	1,500	921	5,461	277	182			
District 20	85,592	85,068	0.6	4,648	12,575	8,226	7,499	3,555	782	6,526	34,599	4,395	2,787			
Isle of Wight	3,233	2,830	14.2	131	223	219	433	109	147	490	950	505	26			
Southampton	4,081	4,061	0.5	136	130	1,127	416	229	168	303	856	694	22			
Chesapeake	12,227	13,336	-8.3	162	430	431	1,211	722	5	793	7,741	668	64			
Franklin City	2,041	1,774	15.1	179	82	489	122	109	49	204	540	260	7			
Norfolk	29,645	30,344	-2.3	2,728	8,861	2,434	4,169	1,015	167	1,088	8,819	141	223			
Portsmouth	13,006	8,562	51.9	240	1,067	232	272	233	1	1,893	8,008	863	197			
Suffolk	10,611	12,007	-11.6	511	791	2,570	631	1,111	234	1,104	2,873	589	197			
Virginia Beach	10,748	12,154	-11.6	561	991	724	245	27	11	651	4,812	675	2,051			
District 21	28,216	29,949	-5.8	394	2,147	442	5,145	655	12	2,820	15,029	1,418	154			
James City Co.	24	24	0.0	1	14	14	119	2	1	195	3	7	1			
York	335	496	-32.5	309	1,361	412	4,450	185	5	2,273	4,267	921	25			
Hampton	14,208	15,505	-8.4	82	770	30	573	462	6	350	10,591	490	125			
Newport News	13,479	13,799	-2.3													
Poquoson	1	1	-100.0													
Williamsburg	170	124	37.1	2	2	2	3	5	2	156						
District 22	14,642	11,899	23.1	104	1,170	2,049	1,250	60	1	616	8,035	1,019	338			
Accomack	10,003	7,430	34.6	83	784	1,132	789	58	1	287	5,757	827	285			
Northampton	4,639	4,469	3.8	21	386	917	461	2		329	2,278	192	53			

Data represent visits to or in regard to patients in the home, office, school or other location as reported through local health department.

TABLE 82 - NUMBER OF PUBLIC HEALTH NURSING VISITS IN THE PATIENT'S HOME BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE WITH PERCENT OF HOME VISITS TO ALL PATIENT VISITS AND PERCENT OF HOME VISITS BY PROGRAM, FISCAL YEAR 1979

Planning District/ City or County	Total Home Visits	Program									Percent in Home
		Maternal Health	Child Health	Family Planning	Crippled Children	Chronic Disease	Ment. ill./ Aftercare	Tuber- culosis	Home Health	All Other	
STATE OF VIRGINIA	388,310	16,300	40,927	22,324	31,433	21,038	3,814	14,395	231,568	6,511	57.8
Percent of Home Visits by Programs	100.0	4.2	10.5	5.8	8.1	5.4	1.0	3.7	59.6	1.7	
<u>District 1</u>	<u>6,250</u>	<u>7</u>	<u>24</u>	<u>81</u>	<u>107</u>	<u>5</u>	<u>17</u>	<u>61</u>	<u>5,944</u>	<u>5</u>	<u>83.3</u>
Lee	2,407	2	12	50	89		15	48	2,188	3	85.3
Scott	1,922	1	0	23	5	5		4	1,883	1	82.3
Wise	1,681	2	7	7	4		1		1,659	1	84.5
Norton	240	2	5	1	9		1	9	213		88.9
<u>District 2</u>	<u>9,882</u>	<u>27</u>	<u>164</u>	<u>310</u>	<u>672</u>	<u>366</u>	<u>149</u>	<u>260</u>	<u>7,894</u>	<u>46</u>	<u>79.3</u>
Buchanan	1,615	8	73	66	259	22	29	75	1,080	3	65.9
Dickenson	1,220	7	3	53	28	53	9	39	1,028		84.4
Russell	3,029	4	28	117	194	51	84	52	2,487	12	86.5
Tazewell	4,018	8	60	74	191	240	27	94	3,299	25	79.6
<u>District 3</u>	<u>25,144</u>	<u>556</u>	<u>882</u>	<u>1,311</u>	<u>1,397</u>	<u>321</u>	<u>101</u>	<u>218</u>	<u>20,241</u>	<u>117</u>	<u>80.2</u>
Bland	754		40	27	324	38		9	316		90.7
Carroll	2,676	206	168	219	268	15	8	55	1,705	32	66.1
Grayson	1,446	65	187	156	300	24	14	39	629	32	59.3
Smyth	6,178	47	46	232	61	36	1	16	5,715	24	76.0
Washington	5,899	35	120	149	32	129	56	27	5,341	10	62.8
Wythe	2,837	73	89	292	297	49	7	51	1,974	5	72.1
Bristol	4,693	81	159	64	80	17	11	15	4,262	4	81.1
Galax	661	49	73	172	35	13	4	6	299	10	27.2
<u>District 4</u>	<u>6,159</u>	<u>144</u>	<u>439</u>	<u>165</u>	<u>498</u>	<u>237</u>	<u>11</u>	<u>92</u>	<u>4,516</u>	<u>57</u>	<u>73.1</u>
Floyd	237	2	7	9	24	17			177		50.7
Giles	1,340	6	170	16	117	127	1	41	835	27	61.3
Montgomery	2,220	26	133	33	125	20	1	8	1,866	8	85.0
Pulaski	1,482	50	106	93	182	13	2	21	1,002	13	47.3
Radford	880	60	23	14	50	60	6	22	636	9	66.6
<u>District 5</u>	<u>23,881</u>	<u>236</u>	<u>1,170</u>	<u>722</u>	<u>1,345</u>	<u>955</u>	<u>51</u>	<u>873</u>	<u>18,351</u>	<u>178</u>	<u>71.6</u>
Alleghany	942	1	10	1	33	66		11	816	4	76.5
Botetourt	1,826	16	53	7	11	37		13	1,685	4	78.4
Craig	440	6	5		25	93	22	9	235	45	63.6
Roanoke	4,846	60	333	49	122	317	9	32	3,903	21	64.8
Clifton Forge	716	9	43	11	9	49	3	13	573	6	71.7
Covington	977	1	11	2	35	69	1	8	846	4	75.6
Roanoke City	11,160	68	591	624	1,062	251	16	760	7,697	91	75.7
Salem	2,974	75	124	28	48	73		27	2,596	3	64.6
<u>District 6</u>	<u>15,803</u>	<u>1,065</u>	<u>2,941</u>	<u>1,061</u>	<u>2,712</u>	<u>637</u>	<u>748</u>	<u>581</u>	<u>5,832</u>	<u>226</u>	<u>55.5</u>
Augusta	3,061	278	692	261	446	138	80	136	971	59	45.5
Bath	1,084	8	142	17	311	36	145	26	389	10	82.8
Highland	385	19	47	19	129	55	104	11	1		55.6
Rockbridge	1,716	91	215	92	439	43	89	33	710	4	52.0
Rockingham	3,153	264	755	255	646	136	66	204	777	50	46.9
Buena Vista	290	29	47	14	17	13	28	3	135	4	26.5
Harrisonburg	1,182	102	246	77	131	51	25	61	462	27	37.3
Lexington	488	12	63	16	157	2	22	15	201		47.0
Staunton	2,534	154	482	142	277	102	142	81	1,096	58	39.9
Waynesboro	1,910	108	252	168	159	61	47	22	1,080	13	43.0
<u>District 7</u>	<u>7,905</u>	<u>302</u>	<u>522</u>	<u>484</u>	<u>940</u>	<u>518</u>	<u>627</u>	<u>404</u>	<u>3,981</u>	<u>127</u>	<u>54.4</u>
Clarke	664	39	33	25	79	36	41	60	323	28	53.6
Frederick	1,438	53	46	45	251	19	90	48	869	17	74.5
Page	861	62	115	54	108	37	50	38	384	13	43.5
Shenandoah	1,430	25	50	137	150	314	206	159	364	25	46.6
Warren	1,977	64	209	130	224	84	111	16	1,135	4	52.9
Winchester	1,535	59	69	93	128	28	129	83	906	40	59.9
<u>District 8</u>	<u>62,785</u>	<u>3,741</u>	<u>11,419</u>	<u>1,712</u>	<u>2,979</u>	<u>5,826</u>	<u>352</u>	<u>1,946</u>	<u>34,159</u>	<u>651</u>	<u>36.6</u>
Arlington	14,724	1,018	2,423	406	188	1,632	70	531	8,305	151	67.9
Fairfax	22,277	1,305	4,167	534	1,089	1,640	109	750	12,496	187	21.2
Loudoun	7,959	217	641	39	349	670	8	68	5,926	41	83.6
Prince William	4,055	140	770	95	701	374	30	252	1,583	110	45.3
Alexandria	11,400	948	3,111	617	548	1,206	116	262	4,465	127	41.3
Fairfax City	395	42	86	10	17	35	2	11	192		15.4
Falls Church	898	44	90	7	16	180	14	30	517		26.0
Manassas	918	15	99	2	54	60	3	29	651	5	70.9
Manassas Park	159	12	32	2	17	29		13	24	30	56.8
<u>District 9</u>	<u>11,123</u>	<u>403</u>	<u>1,111</u>	<u>408</u>	<u>1,386</u>	<u>1,089</u>	<u>238</u>	<u>656</u>	<u>5,697</u>	<u>148</u>	<u>55.4</u>
Culpeper	3,400	71	149	58	404	354	23	138	2,158	45	66.2
Fauquier	2,578	111	470	122	422	283	17	343	734	76	40.9
Madison	1,991	25	303	172	160	138	49	83	1,055	6	64.8
Orange	2,652	185	86	21	324	248	115	68	1,593	12	72.9
Rappahannock	512	11	103	35	76	66	34	24	157	6	55.1
<u>District 10</u>	<u>17,900</u>	<u>549</u>	<u>1,610</u>	<u>424</u>	<u>1,623</u>	<u>2,615</u>	<u>288</u>	<u>317</u>	<u>10,182</u>	<u>292</u>	<u>56.4</u>
Albemarle	4,617	170	590	129	519	746	52	82	2,274	55	40.3
Fluvanna	996	8	34	12	82	172	6	19	629	34	44.7
Greene	768	6	26	5	82	51	27	3	554	14	71.8
Louisa	1,579	15	155	16	216	308	23	42	791	13	63.9
Nelson	2,853	99	355	118	179	408	21	18	1,633	22	75.8
Charlottesville	7,087	251	450	144	545	930	159	153	4,301	154	73.5

(continued)

TABLE 82 - NUMBER OF PUBLIC HEALTH NURSING VISITS IN THE PATIENT'S HOME BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE WITH PERCENT OF HOME VISITS TO ALL PATIENT VISITS AND PERCENT OF HOME VISITS BY PROGRAM, FISCAL YEAR 1979 (continued)

Planning District/ City or County	Total Home Visits	Program							Home Health	All Other	Percent in Home
		Maternal Health	Child Health	Family Planning	Crippled Children	Chronic Disease	Ment. Ill./ Aftercare	Tuber- culosis			
STATE OF VIRGINIA	388,310	16,300	40,927	22,324	31,433	21,038	3,814	14,395	231,568	6,511	57.8
District 11	10,149	267	667	1,841	1,220	589	50	118	4,971	426	70.3
Amherst	1,408	77	273	211	254	167	39	8	350	29	67.4
Appomattox	487	12	15	6	66	10	3	5	370		72.1
Bedford	3,162	117	141	984	388	75	3	42	1,379	33	73.5
Campbell	1,635	19	30	11	255	52	3	17	1,239	9	57.6
Bedford City	366	5	13	79	8	3		3	255		82.4
Lynchburg	3,091	37	195	550	249	282	2	43	1,378	355	75.7
District 12	14,080	1,062	1,210	1,052	1,963	1,359	70	545	6,695	124	63.1
Franklin	1,269	44	68	30	121	100	10	9	880	7	54.9
Henry	1,803	16	103	55	177	85	2	24	1,336	5	61.5
Patrick	1,552	13	37	19	29	370	7	42	1,017	18	57.2
Pittsylvania	4,243	548	624	398	633	413	39	207	1,315	66	67.2
Danville	4,438	432	334	492	906	365	11	212	1,661	25	65.5
Martinsville	775	9	44	58	97	26	1	51	486	3	61.5
District 13	4,513	267	194	430	937	271	14	308	2,043	49	66.4
Brunswick	1,053	138	94	89	213	50	3	59	393	14	60.0
Halifax	1,356	11	49	119	271	152	4	68	666	16	74.5
Mecklenburg	2,010	118	51	220	442	62	6	174	919	18	65.9
South Boston	94			2	11	7	1	7	65	1	56.3
District 14	5,601	302	464	268	955	457	101	360	2,612	82	54.6
Amelia	752	90	86	97	155	84	13	44	169	14	42.5
Buckingham	1,138	12	43	44	176	33	5	44	760	21	65.6
Charlotte	1,012	43	105	33	128	60	16	119	489	19	68.7
Cumberland	584	10	52	3	90	48		17	360	4	66.1
Lunenburg	436	68	53	29	123	33	30	52	48		61.4
Nottoway	948	45	59	30	107	149	10	52	482	14	60.5
Prince Edward	731	34	66	32	176	50	27	32	304	10	35.0
District 15	37,359	3,637	7,123	2,030	3,163	1,051	244	2,908	16,161	1,042	63.1
Charles City Co.	942	12	63	375	33	12	2	37	403	5	72.8
Chesterfield	4,153	584	1,075	275	562	161	3	113	1,378	12	27.8
Goochland	925	23	85	39	100	32	17	19	606	4	51.4
Hanover	1,604	35	198	85	87	42	57	81	1,003	16	72.1
Henrico	4,394	438	925	204	695	147	29	114	1,826	16	71.1
New Kent	411	9	73	76	44	20		8	181		52.7
Powhatan	284	9	39	11	38	34	42	62	48	1	25.0
Richmond City	24,636	2,527	4,665	965	1,604	603	94	2,474	10,716	988	80.0
District 16	8,318	481	969	377	1,712	1,223	75	650	2,735	96	66.6
Caroline	2,518	127	300	111	567	210	32	360	781	30	83.7
King George	626	27	65	27	39	104	2	20	336	6	59.3
Spotsylvania	1,848	139	245	83	635	239	12	71	408	16	60.6
Stafford	1,499	65	134	47	259	215	21	93	641	24	53.3
Fredericksburg	1,827	123	225	109	212	455	8	106	569	20	71.1
District 17	5,179	75	82	858	181	274	5	79	2,561	64	66.3
Lancaster	1,329	26	17	512	38	38	3	20	642	33	71.3
Northumberland	1,277	5	3	65	12	20		6	1,154	12	60.3
Richmond	988	8	1	127	18	44	1	6	774	9	51.7
Westmoreland	1,585	36	61	154	113	172	1	47	991	10	82.3
District 18	5,765	179	153	1,597	217	135	15	98	3,306	65	67.3
Essex	812	4	5	172	37	16		16	558	4	64.6
Gloucester	1,176	39	39	402	76	65	9	37	478	31	69.3
King and Queen	630	18	54	98	12	38	3	5	396	6	73.9
King William	885	15	36	106	29	11	1	39	639	9	64.6
Mathews	1,169	27	12	344	50	4	2	1	718	11	75.0
Middlesex	1,093	76	7	475	13	1			517	4	59.8
District 19	17,881	215	372	2,518	535	473	364	495	12,799	110	60.8
Dinwiddie	2,269	5	20	738	15	116	65	64	1,233	13	72.1
Greensville	912	22	42	47	63	58	10	57	612	1	53.6
Prince George	441	6	9	83	9	15	13	14	282	10	34.2
Surry	1,244	7	3	208	8	34	4	49	925	6	62.7
Sussex	1,614	25	61	379	118	52	85	122	762	10	71.0
Colonial Heights	1,617	59	85	53	122	94	116	65	1,022	1	81.5
Emporia	491	15	14	22	28	36	27	39	307	3	48.9
Hopewell	2,675	11	10	602	31	11	9	5	1,974	22	52.5
Petersburg	6,618	65	128	386	141	57	35	80	5,682	44	60.4
District 20	58,024	2,481	7,655	2,537	3,434	2,257	289	1,435	35,672	2,259	67.8
Isle of Wight	1,471	15	65	16	137	54	34	138	1,004	8	45.5
Southampton	1,584	67	49	127	73	92	69	57	1,047	3	38.8
Chesapeake	9,927	90	222	316	357	718	3	204	7,991	26	81.2
Franklin City	1,284	38	31	427	30	36	19	78	623	2	62.9
Norfolk	21,548	1,860	6,049	1,340	2,407	775	110	266	8,657	84	72.7
Portsmouth	10,383	176	847	109	270	157	1	227	8,448	148	79.8
Suffolk	4,096	127	122	144	77	418	48	254	2,867	39	38.6
Virginia Beach	7,731	108	270	58	83	7	5	211	5,040	1,949	71.9
District 21	22,276	259	1,055	293	2,813	356	2	1,669	15,686	140	78.9
James City Co.	16	1				2			12	1	66.7
York	88		18		55			19	3	1	26.3
Hampton	10,708	208	978	267	2,682	149	3	1,594	4,811	16	75.4
Newport News	11,306	48	66	26	76	201	2	56	10,709	122	83.9
Poquoson											
Williamsburg	158	2	1			4			151		92.9
District 22	12,323	45	701	1,845	644	24		322	8,526	216	84.2
Accomack	8,311	35	452	1,013	350	22		110	6,152	177	83.1
Northampton	4,012	10	249	832	294	2		212	2,374	39	86.5

TABLE 83
NUMBER OF CLINIC SESSIONS HELD WITH TOTAL ATTENDANCE AND NUMBER OF PERSONS SERVED
BY TYPE CLINIC ATTENDED, VIRGINIA, FISCAL YEAR 1979

Type of Clinic	Number of Clinics Held	Clinic Visits	Net Number of Patients		Follow-up Visits	Type of Clinic	Number of Clinics Held	Clinic Visits	Net Number of Patients		Follow-up Visits
			Total	New					Total	New	
STATE OF VIRGINIA	65,130	1,070,442	559,763	330,381	504,862				10,623	6,321	18,313
Maternal and Child Health	22,517	324,337	137,887	82,350	185,149	Chronic and Specialized	1,327	29,178			
MCH	2,270	40,108	12,109	8,079	27,807	Cardiac	2	33	33	32	-
Maternal Health	4,578	70,444	14,711	11,414	55,579	Diabetes	16	230	60	32	170
Gynecology	851	7,456	4,610	3,123	2,830	Neuro-Sensory	37	231	118	38	113
Maternal - Family Plan.	2,557	38,868	17,998	8,181	20,671	Urology	130	586	246	174	337
Pediatric	9,531	141,124	67,361	37,045	73,219	Allergy	174	3,106	71	53	3,035
Preschool	810	10,132	6,791	5,728	3,299	Hypertension	687	21,165	9,230	5,863	11,723
Work Permits	314	2,377	2,214	2,137	152	Mental Health	13	199	64	8	135
Medical Screening	1,568	13,453	11,799	6,362	1,511	Mental Aftercare	266	3,611	800	120	2,784
Sickle Cell	38	375	294	281	81	Alcohol	2	17	1	1	16
Family Planning	9,014	154,668	76,621	30,073	77,730	TB and Respiratory	5,557	100,646	79,702	51,241	19,507
Crippled Children	3,536	42,172	20,207	8,409	21,702	14X17 X-Ray	2,575	38,779	32,924	18,294	5,461
Orthopedic	612	12,166	5,720	3,365	6,372	70MM X-Ray	204	3,957	3,830	3,760	31
Facial Deformity	35	487	279	71	208	TB-Diagnosed	1,595	43,040	31,237	22,457	10,941
Pediatric Urology	194	2,005	624	282	1,363	Regional Chest	689	7,955	5,215	3,198	2,681
Pediatric Surgery	126	582	196	148	386	Other	394	6,915	6,496	3,532	393
Eye Surgery	142	2,213	1,610	540	602	Other Specialized	23,179	415,733	232,133	150,056	181,377
Rheumatic Fever	67	669	269	96	393	Venereal Disease	3,258	59,126	44,054	28,324	14,945
Congenital Cardiac	416	3,890	2,429	924	1,451	Immunization	5,572	106,058	71,566	42,378	33,723
Child Neurology	329	6,848	3,873	965	2,911	Dermatology	80	774	377	288	396
Burn Surgery	14	56	30	22	26	Ear, Nose, Throat	145	1,183	677	562	504
Plastic Surgery	56	487	265	80	221	Eye	1,408	14,832	13,478	11,016	1,208
Defective Hearing	265	4,956	2,818	929	2,123	Family Practice	839	34,522	10,264	4,021	24,210
Pediatric Neurosurgery	105	743	282	107	461	General Medical	6,042	96,783	37,353	25,888	59,011
Amputee	30	183	45	7	137	Surgical	217	1,502	782	584	719
Cerebral Palsy	49	435	197	67	238	Tumor	296	1,973	1,411	824	527
Hemophilia	38	144	62	32	82	Orthopedic - Adult	118	1,663	912	472	746
Rheumatoid Arthritis	7	27	7	3	20	Physical Therapy-Adult	30	201	64	43	137
Cystic Fibrosis	161	968	226	47	731	Occupational Therapy	4	39	36	30	2
Physical Therapy	817	4,781	1,018	540	3,707	Speech Therapy	-	-	-	-	-
Other Crippled Children	73	532	257	184	270	Miscellaneous	5,170	97,077	51,159	35,621	45,249
						Invalid Clinic Codes		3,708	2,590	1,931	1,084

TABLE 84
CLINIC VISITS AND THE NUMBER OF PERSONS SERVED BY TYPE CLINIC
VIRGINIA, FISCAL YEARS 1977-1979

TYPE OF CLINIC	Visits			Persons Served			TYPE OF CLINIC			Visits			Persons Served		
	1977	1978	1979	1977	1978	1979				1977	1978	1979	1977	1978	1979
ALL CLINICS	1,001,518	1,012,790	1,070,442	599,710	553,137	559,763				30,842	27,765	29,178	7,753	8,567	10,623
Maternal & Child Health	257,577	279,662	324,337	125,774	123,394	137,887	Chronic Disease			133,211	99,418	100,646	111,680	78,948	79,702
MCH	15,435	24,062	40,108	7,590	8,982	12,109	Cardiac			18,661	10,344	38,779	43,815	35,233	32,924
Maternal Health	56,446	79,444	79,444	14,613	12,304	14,711	Diabetes			14,772	6,665	3,957	14,716	6,636	3,830
Gynecology	6,115	8,999	7,456	4,523	6,602	4,610	Neuro-Sensory			51,757	35,873	43,040	38,510	24,490	31,237
Maternal - Family Plan.	36,958	39,608	38,868	19,259	19,980	17,998	Urology			8,699	9,412	7,955	5,980	6,121	5,215
Pediatric	114,681	120,048	141,124	55,673	54,315	67,361	Allergy			9,322	7,124	6,915	8,659	6,468	6,496
Preschool	8,374	7,847	10,132	5,975	5,521	6,791	Hypertension			393,982	422,028	415,733	256,825	247,512	232,133
Work Permits	1,978	2,444	2,377	1,861	2,205	2,214	Mental Health			58,582	56,319	59,126	43,559	41,483	44,054
Medical Screening	16,573	13,752	13,453	15,296	12,615	11,799	Mental Aftercare			111,029	129,652	106,058	83,487	93,402	71,566
Sickle Cell	1,013	951	375	984	870	294	Alcohol			906	872	774	374	480	377
Family Planning	143,661	139,233	154,668	75,726	71,327	76,621	TB & Respiratory			1,098	970	1,183	520	509	677
Crippled Children	38,902	38,815	42,172	19,927	18,980	20,207	14x17 X-Ray			15,101	14,477	14,832	14,174	13,398	13,478
Orthopedic	9,852	11,527	12,166	4,762	5,305	5,720	70MM X-Ray			33,788	33,806	34,522	25,587	10,356	10,264
Facial Deformity	510	482	487	350	273	279	TB-01agnosed			92,473	93,920	96,783	41,623	37,992	37,353
Pediatric Urology	2,327	2,066	2,005	822	721	624	Regional Chest			1,908	1,663	1,502	961	942	782
Pediatric Surgery	893	847	582	408	267	196	Other			721	1,665	1,973	303	1,226	1,411
Eye Surgery	1,772	1,633	2,213	1,217	1,144	1,610	Other Specialized			2,074	2,162	1,663	977	1,258	912
Rheumatic Fever	1,240	1,038	669	656	593	269	Veneral Disease			39	129	201	71	154	64
Congenital Cardiac	3,001	3,189	3,890	2,328	2,290	2,429	Immunization			291	29	39	333	108	36
Child Neurology	6,262	5,395	6,848	4,568	3,829	3,873	Ear, Nose, and Throat			74,585	85,549	97,077	44,746	46,176	51,159
Burn Surgery	45	29	56	20	12	30	Dermatology			3,343	5,869	3,708	2,025	4,409	2,590
Plastic Surgery	1,038	566	487	519	348	265	Eyn								
Defective Hearing	3,640	3,800	4,956	2,002	2,067	2,818	Family Practice								
Pediatric Neurosurgery	758	565	743	404	275	282	General Medicine								
Amputee	283	221	183	87	52	45	Surgical								
Cerebral Palsy	688	637	435	272	246	197	Tumor								
Hemophilia	121	130	144	39	38	62	Orthopedic-Adult								
Rheumatoid Arthritis	53	61	27	13	12	7	Physical Therapy-Adult								
Cystic Fibrosis	844	816	968	244	233	226	Occupational Therapy								
Physical Therapy	5,224	5,221	4,781	1,050	931	1,018	Speech Therapy								
Other Crippled Children	341	492	532	166	304	257	Miscellaneous								
							Invalid Clinic Codes								

NOTE: Data shown are by type of clinic as classified by and reported through the local health departments.

TABLE 85
DENTAL HEALTH CLINIC ACTIVITIES BY LOCATION OF CLINIC
VIRGINIA, FISCAL YEAR 1979

City or County	Total Patient Visits	First Visit This Year	Patients Completed	Total Services	Estimated Value of Services (in dollars)	Examinations	X-Ray Diagnostic Services	Prophylaxis	Fluoride Treatments	Amalgam Restorations	Other Restorations	Endodontic Services	Periodontic Services	Prosthodontics	Crown & Bridge	Surgical	Orthodontic Services	Space Maintainers	Adjunctive Services
TOTAL	127,423	48,104	26,655	416,070	\$3,785,878	64,431	59,300	34,202	27,753	76,397	17,656	46,749	8,310	2,590	54	29,792	1,075	100	47,011
COUNTIES																			
Albemarle	1,682	778	632	5,972	44,477	659	298	688	692	1,271	89	1,283	15	25	-	229	9	-	714
Alleghany	1,243	331	374	3,788	31,257	383	686	274	137	1,192	274	282	4	10	1	221	32	14	414
Amherst	2,079	421	178	3,699	40,699	455	79	234	138	1,390	272	88	37	45	-	575	-	-	431
Arlington	2,732	1,138	766	9,019	85,192	1,439	2,123	709	613	1,361	323	1,101	239	45	7	639	22	-	397
Augusta	1,055	405	200	4,327	34,576	390	698	325	375	1,055	195	464	7	15	-	90	-	-	713
Bath	359	148	122	1,523	11,986	157	132	113	108	370	56	302	36	-	-	87	-	-	162
Botetourt	1,245	460	231	5,248	41,308	191	823	421	420	1,440	329	1,219	106	-	-	264	9	-	26
Buchanan	1,095	390	26	3,334	30,531	365	657	26	8	547	319	879	14	3	-	260	-	2	254
Chesterfield	1,647	703	618	3,033	25,228	829	340	44	6	725	141	490	36	-	-	213	1	-	208
Cumberland	1,239	502	53	5,502	42,053	700	906	257	243	1,030	429	365	33	4	-	460	337	-	738
Fairfax	5,666	2,474	2,037	13,919	191,093	3,356	1,061	2,668	98	2,897	1,077	1,019	208	286	4	733	4	1	507
Fauquier	2,107	813	257	6,174	51,767	794	427	425	442	1,078	590	1,549	162	5	-	420	1	-	281
Floyd	307	65	62	1,153	8,938	121	187	103	117	234	44	191	6	-	-	27	-	-	123
Fluvanna	603	229	34	1,476	16,017	104	85	168	145	332	169	123	4	6	-	143	-	-	136
Frederick	1,103	550	144	3,122	30,544	615	585	231	226	614	84	37	135	17	1	332	1	-	244
Gochoiland	1,304	181	1	3,170	28,702	729	150	343	154	785	219	369	1	-	-	203	-	-	217
Grayson	1,079	343	259	6,057	40,732	356	746	316	2,139	1,237	195	234	4	-	-	142	38	-	650
Greene	1,497	368	355	5,613	40,887	401	688	311	341	1,115	142	1,446	237	1	-	66	316	2	847
Hanover	726	308	141	2,247	24,306	292	646	180	143	593	206	639	51	2	4	110	-	-	381
Henrico	1,345	541	745	10,040	73,879	893	711	768	764	3,155	40	1,475	848	-	-	408	1	6	971
Henry	476	243	143	2,194	18,147	227	216	194	165	422	92	338	23	-	-	134	-	-	383
Highland	189	85	153	629	5,797	159	26	145	116	85	10	13	6	-	-	3	-	-	66
James City Co.	4	2	-	9	83	2	4	-	-	-	-	-	1	2	-	-	-	-	-
Lee	548	223	-	1,830	16,976	365	285	291	278	222	84	49	14	-	1	95	-	2	144
Loudoun	1,047	538	405	5,464	43,497	551	1,295	513	495	1,094	220	1,055	28	-	-	113	-	-	100
Louisa	1,487	552	42	3,257	38,378	547	1,655	243	159	542	427	251	94	20	-	583	-	-	298
Madison	258	59	63	1,210	9,412	52	138	60	59	276	45	316	43	-	-	26	12	5	178
Montgomery	1,342	415	235	5,456	42,458	516	273	354	401	1,076	305	1,049	50	2	8	245	53	2	1,122
Nelson	1,769	584	466	4,611	43,944	764	529	128	125	1,478	183	482	16	8	-	826	-	-	60
Northampton	2,087	1,000	660	5,965	46,285	994	765	697	685	1,362	65	429	42	-	-	152	-	-	774
Orange	2,389	1,096	577	8,335	68,740	1,205	1,308	679	640	1,157	285	1,246	88	102	1	821	-	-	983
Page	429	140	61	1,676	14,979	189	327	165	148	565	44	67	1	1	-	38	-	-	131
Pittsylvania	797	312	158	2,397	21,815	382	283	301	278	355	157	240	30	3	-	231	-	-	137
Prince Edward	115	55	1	553	3,127	114	80	-	-	-	3	-	-	-	-	145	63	-	147
Prince William	2,533	1,332	319	6,711	53,555	1,159	1,175	779	231	1,372	299	1,035	112	8	-	580	-	-	461
Pulaski	718	325	265	2,580	27,074	332	503	196	189	479	188	763	38	2	-	114	-	7	269
Richmond	469	264	177	2,377	23,187	214	283	180	180	295	33	281	255	-	-	244	-	-	406
Roanoke	1,584	669	493	6,707	59,213	766	1,605	602	474	869	442	1,194	118	-	2	180	24	1	425
Rockbridge	1,192	566	442	4,240	40,356	593	540	333	298	831	133	504	62	40	2	396	1	-	508
Rockingham	2,263	962	724	9,769	79,389	1,000	2,043	889	341	2,515	290	505	81	5	-	287	-	-	1,812
Russell	2,263	988	61	5,378	50,881	1,040	800	79	71	1,386	326	976	10	3	-	530	-	-	162
Scott	918	589	144	2,838	25,913	718	960	144	103	944	119	877	74	-	-	600	-	-	176
Shenandoah	1,755	397	99	5,498	37,349	718	960	144	103	944	119	877	74	-	-	297	-	-	463
Smyth	1,772	810	94	5,698	51,893	904	96	840	668	906	393	2	53	75	-	344	12	-	1,304

(continued)

TABLE 84
DENTAL HEALTH CLINIC ACTIVITIES, BY LOCATION OF CLINIC
VIRGINIA, FISCAL YEAR 1979

City or County	Total Patient Visits	First Visit This Year	Patients Completed	Total Services	Estimated Value of Services (in dollars)	Examinations	X-Ray Diagnostic Services	Prophylaxis	Fluoride Treatments	Amalgam Restorations	Other Restorations	Endodontic Services	Periodontic Services	Prosthodontics	Crown & Bridge	Surgical	Orthodontic Services	Space Maintainers	Adjunctive Services
CITIES																			
Spotsylvania	871	419	47	2,589	24,749	542	371	272	136	467	50	78	127	-	-	294	-	-	252
Stafford	995	404	161	4,670	30,042	403	268	390	382	1,032	92	848	44	-	-	138	2	-	1,071
Surry	157	45	8	277	5,030	34	39	-	-	76	21	21	5	5	1	73	-	-	2
Tazewell	392	226	126	1,717	15,045	252	128	117	78	150	66	263	44	3	-	166	-	-	450
Washington	2,035	737	294	3,524	37,521	723	67	437	12	998	360	1	240	-	-	179	-	-	507
Westmoreland	450	249	131	2,442	22,906	183	302	174	217	338	19	340	202	1	-	253	-	-	413
Wise	1,297	664	393	4,885	50,656	721	236	513	521	766	374	445	188	14	5	240	1	1	860
Wythe	1,289	618	303	3,859	33,387	657	446	371	124	1,146	85	410	9	2	2	581	-	-	26
York	699	210	85	1,920	22,691	240	351	135	123	384	44	154	44	72	-	117	-	-	256
CITIES																			
Alexandria	3,083	1,022	927	7,066	65,982	1,177	1,207	908	624	1,398	233	852	264	-	-	281	-	1	121
Buena Vista	320	141	73	916	8,923	113	704	101	98	235	62	68	7	-	-	20	-	-	8
Charlottesville	2,301	887	485	6,747	60,709	1,159	566	600	568	933	254	980	92	64	-	79	14	-	721
Chesapeake	1,965	662	210	6,921	72,132	1,740	1,255	323	311	937	244	486	99	82	-	451	-	-	988
Covington	704	217	249	1,976	15,933	256	392	65	69	593	107	101	101	12	-	149	12	1	218
Danville	2,406	486	199	10,197	73,279	1,240	1,871	1,261	692	1,352	249	1,114	170	19	-	700	-	1	1,528
Fredericksburg	1,318	453	255	5,628	39,089	538	1,091	421	407	1,144	133	937	117	-	-	89	2	2	747
Galax	324	130	95	921	9,331	160	105	154	144	145	56	4	-	21	-	130	2	-	21
Hampton	2,754	683	226	10,667	81,563	1,092	2,211	720	705	1,992	109	1,580	266	90	-	468	-	-	1,434
Harrisonburg	497	226	160	2,131	18,055	208	429	185	180	431	80	139	33	5	-	74	-	-	363
Hopewell	266	83	35	662	5,539	81	-	56	44	184	36	155	8	-	-	94	-	-	4
Lexington	353	185	167	1,268	11,763	202	214	93	78	169	34	130	23	7	-	205	-	-	113
Marlinsville	1,222	104	65	4,474	43,331	847	298	375	362	554	160	597	113	45	-	290	-	-	833
Newport News	10,150	3,703	2,551	32,508	269,131	4,276	6,728	1,878	1,859	5,459	739	2,238	482	234	8	2,460	-	14	6,133
Norfolk	6,416	1,989	1,555	23,727	285,436	5,877	2,629	1,767	1,724	3,005	957	3,109	447	436	1	1,868	28	22	1,857
Petersburg	1,620	720	119	3,733	33,553	830	72	211	158	559	187	534	39	-	-	966	3	-	165
Portsmouth	2,756	1,421	526	8,609	88,889	1,165	1,976	334	312	1,112	376	436	479	216	-	369	6	6	1,799
Richmond City	6,132	1,828	583	17,961	174,425	4,119	2,343	754	524	2,366	809	2,491	619	142	1	1,847	2	-	1,900
Roanoke City	1,471	534	73	4,494	34,138	723	284	259	226	535	42	582	104	3	-	581	-	-	1,148
Staunton	937	436	378	2,674	36,871	506	239	277	179	427	72	89	73	99	-	145	-	-	418
Suffolk	1,805	798	341	5,861	40,736	819	523	297	151	1,083	90	1,632	6	-	-	716	-	-	544
Virginia Beach	2,318	1,059	349	4,971	59,887	939	799	654	-	742	789	44	121	89	-	427	-	1	366
Waynesboro	1,833	682	493	4,793	51,591	840	847	520	-	1,036	160	347	6	183	-	390	12	-	452
Williamsburg	2,237	358	102	6,155	59,265	999	1,346	392	346	1,386	365	512	70	31	-	609	-	3	26
Winchester	734	377	52	2,090	20,608	418	377	130	132	356	59	29	94	17	3	308	1	-	157
SPECIAL PROGRAMS																			
Facial Deformity	823	281	-	3,468	40,666	804	491	421	402	303	85	-	-	29	1	135	50	1	746
Norfolk C. & V.	3,094	1,061	1,620	12,394	101,599	2,219	2,809	2,042	2,049	1,136	219	275	93	-	1	255	-	1	1,295
Richmond H. & I.	1,302	952	207	2,299	24,457	767	347	215	107	404	45	11	149	-	-	244	-	-	53

TABLE 86
VIRGINIA MEDICAL ASSISTANCE PROGRAM
EXPENDITURES BY LOCALITY OF RECIPIENT'S CURRENT ENROLLMENT FOR
FISCAL YEAR 1979: AVERAGE PERCENT OF ENROLLED ELIGIBLES USING
SERVICES EACH MONTH: NUMBER OF ELIGIBLES ENROLLED ON
JULY 1, 1978 AND JULY 1, 1979 BY LOCALITY

Planning District/ City or County	Dollars Paid by Fiscal Agent FY 1979	Average Monthly Utilization Rate as Percent of Enrollment	Enrollment	
			7/1/78	7/1/79
STATE OF VIRGINIA	\$301,864,531		274,514	273,307
<u>District 1</u>	<u>6,717,137</u>		<u>6,821</u>	<u>6,735</u>
Lee	1,938,835	56.35	2,488	2,503
Scott	1,404,526	58.62	1,691	1,664
Wise	2,965,524	58.28	2,349	2,293
Norton	408,252	58.68	293	275
<u>District 2</u>	<u>4,864,323</u>		<u>7,703</u>	<u>7,403</u>
Buchanan	1,013,643	54.28	2,079	2,022
Dickenson	1,140,702	59.47	1,540	1,446
Russell	1,280,040	57.68	1,918	1,775
Tazewell	1,429,938	50.69	2,166	2,160
<u>District 3</u>	<u>7,720,552</u>		<u>9,273</u>	<u>8,947</u>
Bland	194,924	63.59	247	216
Carroll	1,110,964	64.13	1,412	1,260
Grayson	765,427	63.27	845	819
Smyth	1,564,038	64.02	1,863	1,784
Washington	1,391,345	61.38	2,017	1,929
Wythe	1,423,211	63.89	1,299	1,275
Bristol	926,574	59.14	1,150	1,189
Galax	344,069	65.77	440	475
<u>District 4</u>	<u>5,248,140</u>		<u>4,888</u>	<u>4,775</u>
Floyd	506,502	61.92	455	437
Giles	790,296	59.99	854	751
Montgomery	1,654,798	55.92	1,819	1,816
Pulaski	1,774,239	64.32	1,449	1,462
Radford	522,305	66.44	311	309
<u>District 5</u>	<u>13,939,285</u>		<u>13,866</u>	<u>13,766</u>
Alleghany	569,362	61.06	519	512
Botetourt	746,510	54.12	752	738
Craig	205,699	62.90	120	120
Roanoke	2,314,974	60.49	1,500	1,517
Clifton Forge	337,991	67.46	194	203
Covington	488,514	56.89	431	441
Roanoke City	8,288,359	50.29	9,820	9,763
Salem	987,876	70.99	530	472
<u>District 6</u>	<u>7,714,532</u>		<u>6,620</u>	<u>6,590</u>
Augusta	1,666,030	57.95	1,493	1,489
Bath	313,003	64.53	187	186
Highland	148,749	60.65	114	115
Rockbridge	542,178	53.85	712	685
Rockingham	1,981,770	61.51	1,380	1,422
Buena Vista	280,515	61.86	269	284
Harrisonburg	780,565	60.29	512	527
Lexington	262,181	59.13	268	278
Staunton	950,695	52.69	870	857
Waynesboro	788,846	61.74	815	747
<u>District 7</u>	<u>5,156,585</u>		<u>4,749</u>	<u>4,826</u>
Clarke	323,457	60.36	345	351
Frederick	761,536	55.64	886	825
Page	1,073,788	60.29	932	946
Shenandoah	1,068,613	59.87	920	890
Warren	883,798	61.59	668	739
Winchester	1,045,393	57.51	998	1,075
<u>District 8</u>	<u>26,469,554</u>		<u>24,617</u>	<u>25,539</u>
Arlington	4,601,717	49.63	3,776	4,127
Fairfax	10,648,933	47.57	9,269	10,050
Loudoun	1,414,132	52.92	1,329	1,275
Prince William	2,965,733	49.16	3,036	3,121
Alexandria	5,903,416	45.10	6,194	5,934
Fairfax City	187,063	50.00	191	185
Falls Church	82,107	46.89	90	77
Manassas	474,497	54.18	425	421
Manassas Park	191,956	47.51	307	349
<u>District 9</u>	<u>4,877,402</u>		<u>4,489</u>	<u>4,388</u>
Culpeper	1,099,123	54.11	1,179	1,131
Fauquier	1,732,827	55.50	1,268	1,305
Madison	575,238	55.37	607	564
Orange	1,186,275	54.29	1,063	1,048
Rappahannock	283,939	57.31	372	340
<u>District 10</u>	<u>6,983,800</u>		<u>7,716</u>	<u>7,438</u>
Albemarle	1,812,411	48.91	2,120	1,882
Fluvanna	511,791	42.08	641	601
Greene	394,567	53.77	418	380
Louisa	925,866	49.76	1,040	1,054
Nelson	790,560	50.42	913	922
Charlottesville	2,548,605	47.91	2,584	2,599

(continued)

TABLE 86
VIRGINIA MEDICAL ASSISTANCE PROGRAM
EXPENDITURES BY LOCALITY OF RECIPIENT'S CURRENT ENROLLMENT FOR
FISCAL YEAR 1979: AVERAGE PERCENT OF ENROLLED ELIGIBLES USING
SERVICES EACH MONTH: NUMBER OF ELIGIBLES ENROLLED ON
JULY 1, 1978 AND JULY 1, 1979 BY LOCALITY

Planning District/ City or County	Dollars Paid by Fiscal Agent FY 1979	Average Monthly Utilization Rate as Percent of Enrollment	Enrollment	
			7/1/78	7/1/79
STATE OF VIRGINIA	\$301,864,531		274,514	273,307
<u>District 11</u>	<u>8,377,278</u>		<u>8,392</u>	<u>8,460</u>
Amherst	983,371	50.00	570	1,011
Appomattox	507,853	53.01	661	688
Bedford	1,359,893	55.50	1,267	1,284
Campbell	1,278,687	49.68	1,698	1,614
Bedford City*				
Lynchburg	4,247,474	48.33	3,796	3,893
<u>District 12</u>	<u>9,805,420</u>		<u>11,805</u>	<u>11,747</u>
Franklin	1,172,139	56.75	1,338	1,377
Henry	1,682,715	55.79	1,590	1,672
Patrick	1,098,912	64.67	706	732
Pittsylvania	2,030,905	44.67	3,728	3,501
Danville	2,706,841	48.03	3,296	3,346
Martinsville	1,113,908	57.89	1,147	1,119
<u>District 13</u>	<u>4,859,800</u>		<u>5,619</u>	<u>5,865</u>
Brunswick	1,002,600	50.69	1,237	1,206
Halifax	2,220,076	50.87	3,114	3,106
Mecklenburg	1,637,124	63.38	1,468	1,553
South Boston*				
<u>District 14</u>	<u>3,793,413</u>		<u>5,937</u>	<u>5,996</u>
Amelia	395,358	53.44	460	431
Buckingham	529,393	36.23	987	960
Charlotte	554,150	52.56	1,039	998
Cumberland	354,139	36.93	672	739
Lunenburg	523,088	58.08	602	617
Nottoway	801,765	51.65	995	1,023
Prince Edward	635,520	45.82	1,182	1,228
<u>District 15</u>	<u>29,284,203</u>		<u>36,016</u>	<u>35,034</u>
Charles City Co.	413,901	44.68	776	686
Chesterfield	2,306,164	47.51	2,074	2,168
Goochland	486,725	52.40	628	626
Hanover	1,117,099	50.66	1,062	1,080
Henrico	3,409,407	51.26	2,655	2,657
New Kent	236,895	51.02	253	263
Powhatan	350,965	48.65	404	405
Richmond City	20,963,047	40.04	28,164	27,149
<u>District 16</u>	<u>3,855,493</u>		<u>4,369</u>	<u>4,468</u>
Caroline	732,456	43.66	1,141	1,057
King George	294,832	54.02	392	418
Spotsylvania	1,009,424	49.15	1,155	1,246
Stafford	961,522	51.07	718	758
Fredericksburg	857,259	54.37	963	989
<u>District 17</u>	<u>2,857,611</u>		<u>2,934</u>	<u>2,977</u>
Lancaster	819,159	57.59	877	825
Northumberland	588,495	57.11	568	577
Richmond	532,139	50.96	455	440
Westmoreland	917,818	49.69	1,034	1,135
<u>District 18</u>	<u>3,276,633</u>		<u>3,116</u>	<u>2,929</u>
Essex	436,588	53.17	414	397
Gloucester	940,709	58.23	854	813
King and Queen	397,852	51.21	558	532
King William	343,524	42.33	507	478
Mathews	633,252	63.04	423	409
Middlesex	524,708	63.21	360	300
<u>District 19</u>	<u>9,760,245</u>		<u>13,001</u>	<u>12,541</u>
Dinwiddie	1,097,935	49.23	1,549	1,451
Greensville	863,077	50.36	1,326	1,306
Prince George	525,503	45.47	531	510
Surry	438,160	52.88	560	515
Sussex	769,308	48.37	1,235	1,157
Colonial Heights	447,812	62.51	306	344
Emporia	526,820	53.41	471	456
Hopewell	1,676,038	52.69	1,356	1,366
Petersburg	3,416,592	44.09	5,667	5,436
<u>District 20</u>	<u>51,834,307</u>		<u>61,942</u>	<u>62,208</u>
Isle of Wight	1,295,101	53.16	1,762	1,683
Southampton	1,631,707	56.80	2,036	2,037
Chesapeake	5,616,937	51.33	5,961	6,058
Franklin City	896,922	55.13	1,074	1,125
Norfolk	22,343,020	44.98	28,106	27,664
Portsmouth	9,539,030	44.59	12,248	12,333
Suffolk	4,209,891	50.83	4,887	4,876
Virginia Beach	6,301,699	51.28	5,868	6,230

*Included with surrounding county

(continued)

TABLE 86
VIRGINIA MEDICAL ASSISTANCE PROGRAM
EXPENDITURES BY LOCALITY OF RECIPIENT'S CURRENT ENROLLMENT FOR
FISCAL YEAR 1979: AVERAGE PERCENT OF ENROLLED ELIGIBLES USING
SERVICES EACH MONTH: NUMBER OF ELIGIBLES ENROLLED ON
JULY 1, 1978 AND JULY 1, 1979 BY LOCALITY

Planning District/ City or County	Dollars Paid by Fiscal Agent FY 1979	Average Monthly Utilization Rate as Percent of Enrollment	Enrollment	
			7/1/78	7/1/79
STATE OF VIRGINIA	\$301,864,531		274,514	273,307
<u>District 21</u>	<u>15,335,318</u>		<u>19,821</u>	<u>20,061</u>
James City Co.	725,745	50.38	910	811
York	656,794	49.12	790	783
Hampton	5,871,759	48.69	7,555	7,495
Newport News	7,735,141	46.62	10,310	10,742
Poquoson	134,237	61.32	114	85
Williamsburg	211,642	53.09	142	145
<u>District 22</u>	<u>4,088,465</u>		<u>5,354</u>	<u>5,192</u>
Accomack	2,757,188	52.40	3,337	3,200
Northampton	1,331,277	49.15	2,017	1,992
<u>INSTITUTIONS</u>	<u>48,460,099</u>		<u>5,266</u>	<u>5,422</u>
Southwestern Va. Tng. Ctr.	1,981,579		171	207
Southeastern Va. Tng. Ctr.	1,733,282		138	187
Northern Va. Tng. Ctr.	2,762,113		176	269
Southside Va. Tng. Ctr.	10,595,536		941	907
Lynchburg Training School	14,150,529		2,099	2,013
Western State Hospital	2,551,159		350	379
Southwestern State Hospital	1,561,608		135	144
Piedmont State Hospital	2,970,856		205	226
Eastern State Hospital	3,547,555		384	406
Central State Hospital	3,543,810		399	401
Catawba Sanatorium	2,881,782		256	263
Blue Ridge Sanatorium	180,290		12	20
Not identified by locality of residence in the State	16,584,936			

TABLE 87
VIRGINIA MEDICAL ASSISTANCE PROGRAM
PAYMENTS TO MEDICAL PROVIDERS FOR
MEDICAL CARE AND SERVICES TO MEDICAID RECIPIENTS
FISCAL YEAR 1979

Providers and Services	Total Paid
MEDICAL CARE SERVICES	\$301,864,531
<u>Health Professional Services:</u>	<u>52,120,935</u>
Physicians	29,467,961
Home Health Services	999,580
Optometrists	1,434,309
Podiatrists	144,580
Pharmaceutical Services	20,074,505
<u>Hospital Services:</u>	<u>77,494,038</u>
General Hospitals	69,364,604
Mental Hospitals	7,918,758
T. B. Hospitals	210,676
<u>Nursing Home Services:</u>	<u>137,565,837</u>
Skilled Nursing Homes	5,156,597
Mentally Retarded - SNH	2,195,437
Intermediate Care Facilities	92,749,984
Mentally Retarded - ICF	37,463,819
<u>Clinic Services</u>	<u>19,998,779</u>
<u>Laboratory and X-Ray Services</u>	<u>98,428</u>
<u>Dental Services</u>	<u>4,263,968</u>
<u>Travel Aid:</u>	<u>3,007,007</u>
Ambulance	138,027
Non-Ambulance	2,868,980
<u>Medical Appliances</u>	<u>962,518</u>
<u>Medicare Premiums</u>	<u>6,353,021</u>

CONSOLIDATED LABORATORY SERVICES

As a result of legislation enacted by the General Assembly of 1972, there was a major reorganization of the State Health Department's laboratories. The Central Laboratory in Richmond and branch laboratories in Luray (Shenandoah Branch) and Abingdon (Southwest Branch) were consolidated along with certain laboratories of the State Agriculture Department, State Water Control Board, State Air Pollution Control Board, State Medical Examiner, and Alcoholic Beverage Control Board into a new Division of Consolidated Laboratory Services. The Division consists of four bureaus--the Bureau of Forensic Science, Bureau of Product Testing, Bureau of Environmental Science, and the Bureau of Microbiological Science.

MICROBIOLOGICAL SCIENCE

The Bureau of Microbiological Science consists essentially of the former State Health Department laboratories. The ten local health department laboratories remain a part of the State Health Department and enjoy the same relationship with the Bureau of Microbiological Science as before. The table below shows the workload for fiscal year 1979 for each laboratory of the Bureau of Microbiological Science as compared to 1978 data.

TOTAL NUMBER OF EXAMINATIONS AND PERCENT CHANGE
BUREAU OF MICROBIOLOGICAL SCIENCE
FISCAL YEARS 1978 AND 1979

Laboratory	Examinations		Percent Change
	1978	1979	
TOTAL	805,836	861,668	6.9
Central (Richmond)	596,396	665,407	11.6
Shenandoah (Luray)	92,822	77,561	-16.4
Southwest (Abingdon)	116,618	118,700	1.8

The Bureau of Microbiological Science made 861,668 examinations in fiscal year 1979, an increase of 55,832 examinations, or 6.9 percent, over 1978. Detailed data on the number of examinations by type for each laboratory are given in Table 88 on page 259.

A total of 996,343 examinations were done in the local public health laboratories in fiscal year 1979, a decrease of 2.1 percent from fiscal year 1978. Four laboratories had a decrease in examinations from the 1978 figures with Petersburg having the largest decrease (31.4 percent). Increases in examinations in the other six laboratories ranged from a high of 21.3 percent in Lynchburg to a low of 3.4 percent in Richmond. Table 89 shows examinations by type for each of the local health department laboratories for fiscal year 1979.

TOTAL NUMBER OF EXAMINATIONS AND PERCENT CHANGE
LOCAL PUBLIC HEALTH LABORATORIES
FISCAL YEAR 1978 AND 1979

Laboratory	Examinations		Percent Change
	Fiscal Year 1978	Fiscal Year 1979	
TOTAL	1,018,013	996,343	-2.1
Alexandria	21,912	20,633	-5.8
Arlington	58,131	63,093	8.5
Fairfax	117,493	130,991	11.5
Lynchburg	50,531	61,309	21.3
Newport News	239,768	206,800	-13.7
Norfolk	166,149	171,979	3.5
Petersburg	91,617	62,831	-31.4
Portsmouth	116,022	121,797	5.0
Richmond	121,696	125,867	3.4
Roanoke	34,694	31,043	-10.5

TABLE 88
NUMBER OF EXAMINATIONS BY TYPE IN CENTRAL AND DISTRICT LABORATORIES
BUREAU OF MICROBIOLOGICAL SCIENCE, CONSOLIDATED LABORATORY SERVICES
VIRGINIA, FISCAL YEARS 1978 AND 1979

Type of Examination	Fiscal Year 1978				Fiscal Year 1979			
	Total	Central Laboratory	Shenandoah Branch	Southwest Branch	Total	Central Laboratory	Shenandoah Branch	Southwest Branch
TOTAL EXAMINATIONS	805,836	596,396	92,822	116,618	861,668	665,407	77,561	118,700
Syphilis								
Chancere Fluid					9			9
Blood								
VDRL Qualitative Tests	184,807	141,662	19,760	23,385	182,091	139,479	20,183	22,429
VDRL Quantitative Tests	8,976	8,068	241	667	9,138	8,259	278	601
FTA-ABS Test	6,381	6,340	41		6,381	5,887		494
RPR	166	166			154	154		
Spinal Fluid								
VDRL Qualitative Tests	920	831	4	85	879	713	1	165
VDRL Quantitative Tests					1			1
Infectious Mononucleosis								
Qualitative Only	3,324	3,090	121	113	2,702	2,341	100	261
Quantitative	951	903		48	756	621		135
Enteric Diseases								
Agglutination Tests								
Salmonella Group D	719	719						
Salmonella Group B	719	719						
S. Typhi	249		130	119	67		40	27
S. Paratyphi B	248		130	118	67		40	27
Clot Cultures								
Salmonella	106	106						
Others	106	106						
Cultures - Feces								
Salmonella	8,276	5,301	1,399	1,576	9,212	6,448	1,150	1,614
Shigella	7,342	5,160	1,400	782	8,178	6,228	1,150	800
E. coli	7	7			5	5		
Brucella								
Agglutination Tests	3,522	3,274	130	118	3,172	3,022	95	55
Cultures	280	280			54	54		
Tularemia								
Agglutination Tests	985	733	130	122	711	578	76	57
Toxoplasmosis	1,224	1,224			775	775		
Leptospirosis	170	170			187	187		
Trichinosis	307	307			180	180		
ASTO	533	533			477	477		
Anti-ONase					187	187		
Viral and Rickettsial Diseases								
Agglutination Tests								
Rocky Mountain Spotted Fever and Typhus	3,169	2,662	261	246	2,422	2,037	249	136
Complement Fixation Tests								
Q Fever	74	74			84	84		
Rocky Mountain Spotted Fever Group	620	620			641	641		
Typhus Group	211	211			239	239		
Psittacosis - LGV	285	285			341	341		
Mumps	481	481			373	373		
Vaccinia	7	7			13	13		
Adenovirus	450	450			381	381		
Lymphocytic Choriomeningitis	191	191			111	111		
Herpes Simplex	591	591			598	598		
Venezuelan Equine Encephalitis	74	74			182	182		
Western Equine Encephalitis	135	135			145	145		
Eastern Equine Encephalitis	190	190			169	169		
St. Louis Encephalitis	175	175			143	143		
California Encephalitis	141	141			130	130		
Rubeola	315	315			43	43		
Varicella (chicken pox)	52	52			84	84		
Polio-myelitis - Type I, II, III	513	513			545	545		
Influenza - Type A	810	810			433	433		
Type B	807	807			436	436		
Mycoplasma pneumonia	474	474			550	550		
Respiratory Syncytial	270	270			216	216		
Parainfluenza - Type 1, 2, 3	1,294	1,294			860	860		
Cytomegalovirus	297	297			328	328		

TABLE 88
NUMBER OF EXAMINATIONS BY TYPE IN CENTRAL AND DISTRICT LABORATORIES
BUREAU OF MICROBIOLOGICAL SCIENCE, CONSOLIDATED LABORATORY SERVICES
VIRGINIA, FISCAL YEARS 1978 AND 1979 (continued)

Type of Examination	Fiscal Year 1978				Fiscal Year 1979			
	Total	Central Laboratory	Shenandoah Branch	South-west Branch	Total	Central Laboratory	Shenandoah Branch	South-west Branch
Hemagglutination-Inhibition Tests								
Influenza - Asian-Type A/2	1,398	1,398						
Type B-Polyvalent	497	497						
Rubella Screening	13,074	13,074			14,369	14,369		
Rubella	950	950			647	647		
Rubeola (HI)	179	179			2,386	2,386		
Toxoplasmosis (HI)					82	82		
Virus Isolations								
Stool Specimens	115	115			34	34		
Throat Washings and Swabs	233	233			69	69		
Spinal Fluid	94	94			56	56		
Miscellaneous Specimens (Tissue and other material)	353	353			197	197		
Rabies								
Microscopic Examinations	608	300	131	177	535	246	117	172
Fluorescent Antibody Tests	828	489	133	206	783	473	118	192
Mouse Tests	604	400	96	108	568	368	91	109
Malaria	3	3			3	3		
Intestinal Parasites								
Feces	12,272	8,410	1,010	2,852	11,624	7,982	620	3,022
Slides for Enterobius Vermicularis	5,953	4,694	661	598	5,269	4,202	468	599
Parasites for Identification	5	5			1	1		
Throat Swabs								
Diphtheria	6	6			8	8		
Hemolytic Streptococcus (All Groups)	66,530	34,302	4,358	27,370	70,917	32,900	4,325	33,192
Group A	5,707	3,883	744	1,080	8,471	4,551	1,032	2,888
Others	457		148	309	867		186	681
Coagulase Positive Staphylococcus	11,932	6,720	225	4,987	9,707	5,406	281	4,020
Staphylococcus Phage Type	915	915			823	823		
Tuberculosis								
Sputum								
Microscopic Examinations	16,984	13,589		3,395	16,006	13,047		2,959
Cultures								
M. tuberculosis	15,694	12,740		2,954	13,619	10,679		2,940
Atypical Mycobacteria	354	261		93	385	284		101
Unsatisfactory	1,343	1,343			983	983		
Cultures for Identification								
M. tuberculosis	319	319			311	311		
Atypical Mycobacteria	576	576			336	336		
Unsatisfactory	43	43			1	1		
Other Fluids								
Microscopic Examinations	1,591	1,379		212	1,737	1,447		290
Cultures								
M. tuberculosis	4,762	4,394		368	3,309	2,851		458
Atypical Mycobacteria	52	52			45	45		
Unsatisfactory	732	220		512	586	343		243
Sensitivity Tests for INH:PAS:SM:EMB	434	434			507	507		
Mycotic Diseases								
Complement Fixation Tests								
Histoplasmosis	3,094	3,094			2,588	2,588		
Blastomycosis	1,547	1,547			1,297	1,297		
Coccidioidomycosis	1,547	1,547			1,317	1,317		
Specimens for Culture								
Systemic Fungus	600	600			883	883		
Cutaneous-Subcutaneous Fungus	57	57			315	315		
Culture for Identification	470	470			458	458		
Gonorrhea - Microscopic	10,038	9,066	276	696	9,508	8,666	301	541
Culture	92,582	67,469	13,959	11,154	101,921	74,616	15,627	11,678
Gonorrhea Sensitivity	167	167			159	159		
Blood for Sugar Determination	19,200	19,200			17,292	17,292		
PKU Tests								
Specimens of Blood	85,122	60,552	19,220	5,350	80,099	80,099		
Phenylalanine	607	607			446	446		
Tyrosine	126	126			24	24		
Hypothyroidism (T4)	1,866	1,866			53,130	53,130		
(TSH)					1,044	1,044		
Specimens of Blood for Rh Typing	9,315	7,859	735	721	8,928	7,272	863	793

TABLE 88
NUMBER OF EXAMINATIONS BY TYPE IN CENTRAL AND DISTRICT LABORATORIES
BUREAU OF MICROBIOLOGICAL SCIENCE, CONSOLIDATED LABORATORY SERVICES
VIRGINIA, FISCAL YEARS 1978 AND 1979 (continued)

Type of Examination	Fiscal Year 1978				Fiscal Year 1979			
	Total	Central Laboratory	Shenandoah Branch	South-west Branch	Total	Central Laboratory	Shenandoah Branch	South-west Branch
Specimens of Blood for Blood Groupings	8,029	6,552	735	732	8,819	7,141	863	815
Atypical Antibody Screen	987	987			2,173	2,173		
Hemoglobin Electrophoresis	22,333	22,333			24,057	24,057		
Solubility	1,631	1,631			1,122	1,122		
Specimens for Occult Blood	1		1		1		1	
Miscellaneous Examinations	1,031	718	65	248	711	487	27	197
Miscellaneous Cultures for Identification	1,939	1,939			2,751	2,751		
Anaerobic	369	369			291	291		
Aerobic	1,092	1,092			1,621	1,621		
Sanitary Examinations								
Water								
Bacteriological								
Total Coliform	93,053	58,438	18,347	16,268	94,219	57,060	19,535	17,624
Fecal Coliform	10,347	10,347			9,587	9,587		
Milk								
Standard Plate Count	3,159	1,413	871	875	3,182	1,271	969	942
Phosphatase Tests	3,031	1,318	873	840	3,052	1,175	969	908
Coliform Tests	3,130	1,426	862	842	3,140	1,257	966	917
Butterfat Tests	54	10		44	41			41
Ice Cream								
Standard Plate Count	203	147	56		178	113	65	
Phosphatase Tests	184	128	56		167	110	57	
Coliform Tests	203	147	56		178	113	65	
Counter Freezes								
Standard Plate Count	5,804	2,436	1,688	1,680	6,990	3,424	2,036	1,530
Phosphatase Tests	6,411	3,042	1,688	1,681	6,328	3,148	1,650	1,530
Coliform Tests	5,807	2,436	1,688	1,683	6,995	3,424	2,036	1,535
Cultured Products								
Coliform Tests	1,044	224	307	513	1,177	234	313	630
Phosphatase Tests	374	99	86	189	486	115	118	253
Empty Retail Containers								
Standard Plate Count	85	84		1	77	77		
Coliform Tests	85	84		1	77	77		
Sterile Products for Sterility Testing					89			89
Food Poisoning	191	191			1,128	1,128		
Food and Beverage	609	609			2,067	2,067		
Bioassay	771	771			1,464	1,464		

TABLE 89
NUMBER OF EXAMINATIONS BY TYPE IN LOCAL HEALTH DEPARTMENT LABORATORIES
VIRGINIA STATE HEALTH DEPARTMENT, FISCAL YEAR 1979

Type of Examination	Total	Local Health Department Laboratories									
		Alex- andria	Arling- ton	Fairfax	Lynch- burg	Newport News	Norfolk	Peters- burg	Port- mouth	Richmond	Roanoke
TOTAL EXAMINATIONS	996,343	20,633	63,093	130,991	61,309	206,800	171,979	62,831	121,797	125,867	31,043
Total General Microbiology	426,058	12,318	30,394	46,230	17,856	54,036	121,011	7,158	29,417	91,713	15,925
<u>Venereal Disease</u>											
<u>Syphilis</u>											
Blood VDRL (Qualitative)	118,334		10,235	32	45	11,964	38,334		12,511	36,818	8,395
(Quantitative)	7,303		414	20	89	199	3,430		621	2,252	278
RPR	28,282	4,707		13,780	9,003					792	
Spinal Fluid (Qualitative)	55					1	54				
(Quantitative)	287			287							
FTA-ABS--Spinal Fluid	41						41				
FTA-ABS--Blood	2,570	143		121			1,660			646	
Darkfield-Chancere Fluid	171	13	16	4		103		18	9		3
Trichomonas	1,171	139	148	230		653					1
Other	2,407	574	153	1,255			245			180	
Gonorrhea											
Smear	13,663	803	644	338	307	820	35	871	1,360	8,254	231
Culture	160,438	5,129	8,633	11,162	8,055	34,620	47,148	6,247	10,592	23,887	4,965
Biochemical Battery	434		123	109		78	116				8
Other	434		11	5		144	274				
<u>Bacterial Infections (Respiratory)</u>											
<u>Throat Swabs</u>											
C. Diphtheria	15						6				
B. Hemolytic Strep (All Groups)	12,457	28	3,633	2,201	294	1,766			1,018	3,025	492
Group A	11,422	5	320	203		156	10,165		162	393	18
Staph-Aureus (Coagulase Pos.)	4,948	17	115	2,201			1,891		2	649	73
Vincent's Angina (Smear)	4										
Staphylococcus Phage Type	87	1					86				
Other	2,321	92	121	146		80	1,122		204	40	516
<u>Tuberculosis</u>											
<u>Sputum for Tuberculosis</u>											
Microscopic Examination	4,334		612	861			730			2,131	
Culture-M. Tuberculosis	8,120		669	2,602			310			4,039	
Atypical Mycobacterium	210		28	38						144	
Urine for TB (Culture)	302		24	21			66			191	
Gastric Washings (Culture)	22						22				
Other Materials											
Microscopic Examinations	214		16				198				
Cultures-M. Tuberculosis	198						198				
Other	866			680			186				
<u>Bacterial Infections (Other Sites)</u>											
Urine Culture (Counts)	7,016	40	1,020	1,473		2,450	1,168		865		
Drug Sensitivities	2,702	18	1,336	232			962		154		
Identifications	2,740		169	541			1,300		1,030		
Urine Culture (No Counts)	4							4			
<u>Miscellaneous Cultures for Identification</u>											
Shigella	1										1
Streptococcus	52						51				
N. Meningitis	129	51					78				
Miscellaneous Material	4,366	202	1,142	1,021		146	1,510		221		24
<u>Serology Other Than Syphilis Sero.</u>											
<u>Febrile Agglutinations</u>											
Salmonella "O" Group B	190						13			99	78
Salmonella "O" Group D	193						11			104	78
Brucella	402						40			284	78
Tularemia	281									203	78
Walt-Felix OX-19	342						17			247	78
OX-2	244									166	78
OX-K	82						4				78
<u>Miscellaneous Serology</u>											
Antistreptolysin	68					44	24				
<u>Infectious Mononucleosis</u>											
(Qualitative)	736		71	7	34	139	75		25	265	120
(Quantitative)	61		11				28			11	
Streptococcus MG	8						8				
C-Reactive Protein	18						2		16		
Rheumatoid	223				14	139			70		
Other	16					16					
<u>Intestinal Infections</u>											
<u>(Bacterial and Parasitic)</u>											
<u>Feces Culture</u>											
Salmonella	3,261	113	108	1,233			835			972	
Shigella	3,292	113	130	1,233			835			970	
E. Coli	501	1					500				11
Other	20						20				
Feces for Intestinal Parasites	3,240	32	343	1,556		142	76		148	873	70
Slides for E. Vermicularis	1,680	21	129	237		64	317	13	53	802	44
Smears for Trichomonas	1,036				12				175	743	106
Parasites for Identification	57	55		2							
Other	21	21									

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Type of Examination	Total	Local Health Department Laboratories									
		Alex- andria	Arling- ton	Fairfax	Lynch- burg	Newport News	Norfolk	Peters- burg	Port- mouth	Richmond	Roanoke
<u>Intestinal Infections (continued)</u>											
<u>(Bacterial and Parasitic)</u>											
Fungus Diseases											
Systemic Fungus											
Sputum	13							8		5	
Spinal Fluid	5							5			
Other	17							17			
Cutaneous-Subcutaneous Fungus											
Hair-Skin-Nails	36							35		1	
Other	680							674	5		1
Cultures for Identification	379							250		129	
Fungus Smear Only	497				3	312			181		
<u>Rabies</u>											
Microscopic Examination	385		20	184				181			
FA Test	510			231				279			
Mouse Test	204			30				124			
Rabies Control	54			54							
<u>Virus Isolation</u>											
Throat Washings	128							128			
Feces	133							133			
Spinal Fluid	28							28			
Tissue	8							8			
Urine	5							5			
Vaginal Swab	8							8			
Other Material	18							18			
<u>Virus Rickettsial and Fungus Sero.</u>											
Poliovirus 1, 11, 111	54							54			
Herpes Simplex (HS)	258							258			
Influenza A	89							89			
Influenza B	89							89			
Cytomegalovirus	487							487			
Adenovirus	63							63			
Parainfluenza 1, 2, 3,	99							99			
Respiratory Syncytial (RS)	33							33			
Mumps	25							25			
Measles (Rubeola)	314							314			
Rubella	4,720			1,687				3,033			
Mycoplasma Pneumoniae	75							75			
<u>Other Microbiology</u>											
Biochemical Battery-Entries	83			83							
CDC Evaluation - Bacteriology	68			68							
CDC Evaluation - Parasitology	5			5							
Antibiotic Sensitivity	1,674									1,674	
Monilia	211									711	
Other	11			7							4
<u>Total Environmental Sanitation</u>	<u>61,689</u>	<u>1,092</u>	<u>1,031</u>	<u>24,284</u>	<u>1,836</u>	<u>3,779</u>	<u>16,537</u>	<u>1,439</u>	<u>1,435</u>	<u>5,990</u>	<u>4,266</u>
<u>Water Bacteriology</u>											
Presumptive	10,464	81	10	6,989			7	802	56	2,519	
Confirmed	1,728	29	3	1,573			11	3	10	97	2
Completed	90	47					5	1	3	34	
Fecal Coliform	4,332	116	72	2,810			1,332			21	
Other	3,348	55	353	797			1,931			212	
<u>Water Chemistry</u>											
Fluoride Only	618	46		264			308				
Chlorine Only	711	46		377			288				
D.O.	453			453							
B.O.D. and C.O.D.	364			364							
Partial and Complete	1,047			1,047							
<u>Milk</u>											
Standard Plate Count	3,587	60		316	107	369	1,922		149	359	305
Coliform Count	3,496	61		308	107	369	1,868		139	359	285
Phosphatase Test	3,348	61		192	107	369	1,813		143	359	304
Cryoscopic Test	134						134				
Other	633			624	9						
<u>Ice Cream</u>											
Standard Plate Count	636	10	30	301	27	157	62		49		
Coliform Count	832	14	222	301	27	157	62		49		
Phosphatase Test	421		21	209	27	53	62		49		
<u>Counter Freezes and Milk Shakes</u>											
Standard Plate Count	5,807	158	104	732	440	656	1,636	211	234	586	1,050
Coliform Count	5,943	188	211	732	440	656	1,636	211	234	586	1,049
Phosphatase Test	5,313			498	440	656	1,636	211	234	586	1,052

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Type of Examination	Total	Local Health Department Laboratories									
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<u>Total Environmental Sanitation (cont.)</u>											
<u>Cultured Products</u>											
Coliform Count	1,259	50		139	48	153	558		70	133	108
Phosphatase Test	1,127	50		99	48	115	558		16	133	108
Other	69					60					
<u>Empty Containers</u>											
Standard Plate Count	23						13			10	
Coliform Count	25					2	13			10	
<u>Air Pollution Samples</u>											
Pollen Count	243						243				
Mold Count	363						363				
Food and Beverage	88	20		68							
Sanitary Quality	76						76				
Food Poisoning	8		3							5	
Other	5,103		2	5,091		7					3
<u>Total Clinical Chemistry</u>	<u>77,673</u>	<u>121</u>	<u>3,487</u>	<u>24,573</u>	<u>5,294</u>	<u>21,182</u>	<u>11,656</u>	<u>793</u>	<u>9,408</u>	<u>678</u>	<u>481</u>
Blood Glucose (Quantitative)	23,172		1,388	5,425	2,932	5,375		775	5,308	146	323
BUN (Qualitative)	363									363	
(Quantitative)	10,496		1,348	5,436	843	2,846					23
Total Protein	29	15		14							
Uric Acid	1,549			1,540						8	1
Cholesterol	1,828		278	1,550							
Creatinine	1,456			1,456							
Inorganic Phosphorus	1			1							
Alkaline Phosphatase	30			30							
Bilirubin	1,494	33		1,454		6				1	
SGOT	2,130		251	1,587						160	132
SGPT	175			175							
Calcium	7			7							
Albumin	41	30		11							
Blood Lead	11,321	17					11,304				
Triglycerides	1,823		222	1,601							
Other	21,758	26		4,286	1,519	12,455	352	18	3,100		2
<u>Total Hematology</u>	<u>210,804</u>	<u>4,658</u>	<u>9,923</u>	<u>24,923</u>	<u>9,549</u>	<u>27,731</u>	<u>8,750</u>	<u>14,560</u>	<u>23,126</u>	<u>10,375</u>	<u>5,609</u>
Red Blood Cell Count	21,380	5	1,191	1,350	3	15,078	135	1,191	275	1,354	
White Blood Cell Count	29,506	5	1,197	2,852	991	15,978	140	2,610	3,567	1,354	312
Differential Count	20,740	5	311	1,851	924	11,941	136	1,629	1,294	1,354	795
Reticulocyte Count	519		65	21	7	261				27	9
Platelet Count	467			82	14	348					23
Coagulation Time	2					2					
One-Stage Prothrombin Time	281					281					
Bleeding Time	6					4		2			
Hematocrit	59,331	3,468	4,397	8,738	5,994	15,978	4,757	787	9,195	1,355	4,162
Sedimentation Rate	844			65	29	549		59	126	5	11
Blood Group	4,305		283	995		756		274	688	1,309	
RH Type and DU	4,579		284	1,124	270	904			688	1,309	
Atypical Antibody Screen	746					590			156		
Sickle Cell (Screen)	379						379				
Hemoglobin	32,689			3,130	1,313	12,190		7,734	6,179	1,358	785
Indices	14,949			36	3	12,723			828	1,354	5
Hemoglobin Electrophoresis	7,659	1,175	1,205	4		5,275					
Other	11,822			4,175	1	3,973	3,203	274		196	
<u>Total Miscellaneous Clinical Tests</u>	<u>220,119</u>	<u>2,144</u>	<u>18,258</u>	<u>10,981</u>	<u>26,774</u>	<u>30,072</u>	<u>14,025</u>	<u>38,381</u>	<u>58,411</u>	<u>16,511</u>	<u>3,762</u>
Occult Blood	7,507	9	8	78	14	272		6,932	128	39	27
EKG	422							422			
Exfoliate Cytology	2,300	2,300									
Pregnancy Test	7,276		1,004	369	500	2,570	372	1,210	1,251		
Urinalysis	62,399	88	6,798	5,224	7,084	13,680	4,387	8,204	12,783	1,759	2,392
Urinalysis-Microscopic	43,724	47	4,851	5,193	6,822	12,644	2,974	3,433	4,769	1,759	1,232
Urine Tests-Miscellaneous	905					905					
Venipuncture			3,699		4,991		2,343	8,234			
Finger Sticks	62,377		816		5,058		2,813	2,642		31,781	
Other	33,209		1,082	117	2,305	1	1,136	7,804	7,699	12,954	111